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Annual Index — 1994

Subject Index 00–58

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(Abramowitz, Milton) *see* **Handbook: Mathematical functions with formulas, graphs, and mathematical tables, 94b:00012**
(Alexander, Carol) *see* **Handbook: Applicable mathematics, 94j:00005**
(Anderson, Nancy D.) *see* **Guide to library service in mathematics: the nontrivial mathematics librarian, 94j:00004**
Borovkov, K. A. ★ Russian-English English-Russian dictionary on probability, statistics, and combinatorics. (English summary) **94k:00006**
Borowski, E. J. (*with* Borwein, Jonathan M.) ★ The HarperCollins dictionary of mathematics. (English summary) **94b:00008**
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Efimov, O. P. ★ Russian-English dictionary of mathematics. **94g:00007**
Garciadiego, Alejandro R. Encyclopedia of the history and philosophy of the mathematical sciences. (Spanish) **94d:00004**
(Hazewinkel, Michiel) *see* **Encyclopedia: Mathematics, 94j:00003a; 94j:00003b** *and* **94j:00003c**
Higham, Nicholas J. ★ Handbook of writing for the mathematical sciences. (English summary) **94f:00005**
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Korol', A. N. *see* **Kotov, V. N.; et al., 94c:00008**
Kotov, V. N. (*with* Kotova, G. N.; Korol', A. N.) ★ Русско-украинско-английский математический словарь словосочетаний. (Russian. Russian and Ukrainian summaries) [Russian-Ukrainian-English mathematical dictionary of collocations] **94c:00008**
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Tung, Louise Watanabe ★ Japanese/English English/Japanese glossary of scientific and technical terms. (English summary) **94b:00009**
(Vajda, Steven) *see* **Handbook: Applicable mathematics, 94j:00005**
Wells, David Graham ★ Numeri memorabili. (Italian. Italian summary) [Memorable numbers] **94f:00006**

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Dictionary:
Mathematical ★ Germanul-K'art'uli mat'ematikuri lek'sikoni. (Georgian. Georgian summary) [German-Georgian mathematical dictionary]
— ★ Ying-E-Han shuxue cihui. (Chinese) [English-Russian-Chinese mathematical dictionary] **94b:00010**
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Scientific and technical terms ★ McGraw-Hill dictionary of scientific and technical terms. **94j:00002**
— *see also* **Tung, Louise Watanabe, 94b:00009**
Encyclopedia:
Mathematics ★ Encyclopaedia of mathematics. Vol. 6. Lobachevskiĭ criterion (for convergence)–Optional sigma-algebra. **94j:00003a**
— ★ Encyclopaedia of mathematics. Vol. 7. Orbit–Rayleigh equation. **94j:00003b**
— ★ Encyclopaedia of mathematics. Vol. 8. Reaction-diffusion equation–Stirling interpolation formula. **94j:00003c**
Guide to library service in mathematics: the nontrivial mathematics librarian ★ A guide to library service in mathematics: the nontrivial mathematics librarian. **94j:00004**
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Applicable mathematics ★ Handbook of applicable mathematics. Supplement. **94j:00005**
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Mathematical functions with formulas, graphs, and mathematical tables ★ Handbook of mathematical functions with formulas, graphs, and mathematical tables. **94b:00012**
Taschenbuch mathematischer Formeln und moderner Verfahren ★ Taschenbuch mathematischer Formeln und moderner Verfahren. (German) [A handbook of mathematical formulas and modern methods] **94b:00011**

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Fink, A. M. *see* **Mitrinović, Dragoslav S.; et al., 94c:00004**
Mathai, A. M. ★ A handbook of generalized special functions for statistical and physical sciences. **94g:33001**
Mitrinović, Dragoslav S. (*with* Pečarić, Josip E.; Fink, A. M.) ★ Classical and new inequalities in analysis. (English summary) **94c:00004**
Pečarić, Josip E. *see* **Mitrinović, Dragoslav S.; et al., 94c:00004**
Poggendorff, J. C. ★ Biographisch-literarisches Handwörterbuch der exakten Naturwissenschaften. Band VIIb. Teil 9. Lieferung 1. (German) [Biographical-literary lexicon of the exact natural sciences. Vol. VIIb. Part 9. No. 1]
— ★ Biographisch-literarisches Handwörterbuch der exakten Naturwissenschaften. Band VIIb. Teil 9. Lieferung 4. (German) [Biographical-literary lexicon of the exact natural sciences. Vol. VIIb. Part 9. No. 4] **94b:01035**
— ★ Biographisch-literarisches Handwörterbuch der exakten Naturwissenschaften. Band VIIb. Teil 9. Lieferung 5. (German) [Biographical-literary lexicon of the exact natural sciences. Vol. VIIb. Part 9. No. 5]

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Addresses:
Works of Fields medalists and Rolf Nevanlinna Prize winner Addresses on the works of Fields medalists and Rolf Nevanlinna Prize winner. **94d:01001**
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Kyoto Addresses on the works of Fields medalists and Rolf Nevanlinna Prize winner. **94d:01001**

00A22 Formularies

Bartsch, Hans-Jochen ★ Taschenbuch mathematischer Formeln. (German) [A pocket book of mathematical formulas]
Gradshteĭn, I. S. (*with* Ryzhik, I. M.) Table errata: *Table of integrals, series, and products* [Academic Press, Boston, 1994; MR 94g:00008].
— (*with* Ryzhik, I. M.) ★ Table of integrals, series, and products. **94g:00008**
(Jeffrey, Alan) *see* **Gradshteĭn, I. S., 94g:00008**
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Ávila del Palacio, Alfonso Are there numbers outside of mathematics? (Spanish. English summary)
Barrow, John D. ★ Theories of everything: the quest for ultimate explanation.
— ★ Pi in the sky. **94c:00009**
Borovcnik, Manfred ★ Stochastik im Wechselspiel von Intuitionen und Mathematik. (German) [Stochastics in the interplay of intuitions and mathematics] **94b:00013**
Breger, Herbert Tacit knowledge in mathematical theory. **94b:00014**
(Butts, Robert E.) *see* **Janich, Peter, 94m:00005**
Castellana, Mario L'expérience mathématique. [Mathematical experience] (*see* **94i:00005**)
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Dauben, Joseph W. Conceptual revolutions and the history of mathematics: two studies in the growth of knowledge (1984). (*see* **94c:00018**)
— Appendix (1992): revolutions revisited. (*see* **94c:00018**)
Dunmore, Caroline Meta-level revolutions in mathematics. (*see* **94c:00018**)
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Ghins, Michel ★ A inércia e o espaço-tempo absoluto. (Portuguese) [Inertia and absolute space-time] **94m:00003**
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00A35 Methodology of mathematics, didactics

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00A72 General methods of simulation

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— *see also* **Shimony, Abner, 94d:01099**
Ghins, Michel ★ A inércia e o espaço-tempo absoluto. (Portuguese) [Inertia and absolute space-time] **94m:00003**
Gotay, Mark J. (*with* Isenberg, James A.) La symplectification de la science (la géométrie symplectique aux fondements de la physique et des mathématiques). [The symplectification of science (symplectic geometry and the foundations of physics and mathematics)] **94e:00011**
Hoekzema, Dick J. ★ The quantum labyrinth. (English summary) **94e:81018**
Isenberg, James A. *see* **Gotay, Mark J., 94e:00011**
Jaffe, Arthur (*with* Quinn, Frank) "Theoretical mathematics": toward a cultural synthesis of mathematics and theoretical physics. (English summary) **94h:00007**
Janich, Peter ★ Euclid's heritage: is space three-dimensional? (English summary) **94m:00005**
Maebashi, Toshiyuki A historical essay on the mathematical structure of modern physics. I. (Japanese. English summary) **94b:01006**
Markov, M. A. ★ О трех интерпретациях квантовой механики. (Russian. Russian summary) [Three interpretations of quantum mechanics] **94b:81010**
Mugur-Schächter, Mioara From quantum mechanics to universal structures of conceptualization and feedback on quantum mechanics. (English summary) **94b:81014**
Parra, Josep Manel Geometric algebra versus numerical Cartesianism. The historical trend behind Clifford's algebra. (English summary) **94k:15017**
(Pasquinelli, Alberto) *see* **Tarozzi, Gino, 94k:81014**
Quinn, Frank *see* **Jaffe, Arthur, 94h:00007**
Rosen, Joe The myth of cosmic symmetry breaking. (English summary) **94h:83119**
Ruhla, Charles ★ The physics of chance. **94h:01002**
Shanks, Niall Time and the propensity interpretation of probability. (English summary) **94k:00008**
Shimony, Abner ★ Search for a naturalistic world view. Vol. II. (English summary) **94d:01099**
Tarozzi, Gino ★ Filosofia della microfisica. Vol. I. (Italian) [Philosophy of microphysics. Vol. I] **94k:81014**
(Zook, David) *see* **Janich, Peter, 94m:00005**

00A99 Miscellaneous topics

Brown, Donald Jerome *see* **Williams, R. F.; et al., 94m:00011**
Holmes, Philip J. *see* **Williams, R. F.; et al., 94m:00011**
Karp, D. *see* **Williams, R. F.; et al., 94m:00011**
Lanford, Oscar E., III *see* **Williams, R. F.; et al., 94m:00011**
Peixoto, M. M. *see* **Williams, R. F.; et al., 94m:00011**
Thom, René *see* **Williams, R. F.; et al., 94m:00011**
Williams, R. F. (*with* Karp, D.; Brown, Donald Jerome; Lanford, Oscar E., III; Holmes, Philip J.; Thom, René; Zeeman, E. Christopher; Peixoto, M. M.; et al.) Final panel. **94m:00011**
Zeeman, E. Christopher *see* **Williams, R. F.; et al., 94m:00011**

Items with secondary classifications in 00A99

Grötschel, Martin (*with* Lügger, Joachim; Sperber, Wolfram) Wissenschaftliches Publizieren und elektronische Fachinformation im Umbruch: ein Situationsbericht aus der Sicht der Mathematik. (German summary) [Scientific publishing and electronic information at a turning point: a report on the situation from the point of view of mathematics] (*see* **94i:00013**)
Lügger, Joachim *see* **Grötschel, Martin; et al.**, (**94i:00013**)
Sperber, Wolfram *see* **Grötschel, Martin; et al.**, (**94i:00013**)

00Bxx Conference proceedings and collections of papers

Items listed otherwise than by author

Mathesis ★ Mathesis. (Spanish) **94b:00020**

00B05 Collections of abstracts of lectures

(Basheleishvili, M. O.) *see* **Reports: Seminar of the I. N. Vekua Institute of Applied Mathematics, Extended Sessions, 94e:00013b**
(Berezovskiĭ, A. A.) *see* **Nonlinear boundary value problems in mathematical physics and their applications, 94b:00024**
(Dzhangveladze, T. A.) *see* **Reports: Seminar of the I. N. Vekua Institute of Applied Mathematics, Extended Sessions, 94e:00013a**
(Evseev, E. G.) *see* **Reports: Seminar of the I. N. Vekua Institute of Applied Mathematics, Extended Sessions, 94e:00013c**
(Gordeziani, D. G.) *see* **Reports: Seminar of the I. N. Vekua Institute of Applied Mathematics, Extended Sessions, 94e:00013c**
(Markov, Aleksandr Aleksandrovich) *see* **Combinatorial-algebraic and probabilistic methods in discrete analysis, 94b:90022**
(Meredov, M. M.) *see* **Differential equations and optimal control, 94g:00018**
(Miller, John J. H.) *see* **BAIL, 94b:00021** *and* **IMACS '91, 94b:00023**

(Mitropol'skiĭ, Yu. A.) *see* **Nonlinear boundary value problems in mathematical physics and their applications, 94b:00024**
(Plotnikov, V. A.) *see* **Conference: Differential and Integral Equations and their Applications**
(Vichnevetsky, Robert) *see* **IMACS '91, 94b:00023**
(Voskresenskiĭ, G. P.) *see* **Construction of algorithms and the solution of problems in mathematical physics, 94e:00012**
(Zabrodin, A. V.) *see* **Construction of algorithms and the solution of problems in mathematical physics, 94e:00012**

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All-Union Conference:
Differential Equations and Optimal Control ★ Дифференциальные уравнения и оптимальное управление. (Russian) [Differential equations and optimal control] **94g:00018**
All-Union Seminar:
Theoretical Foundations and Construction of Numerical Algorithms for Solving Problems in Mathematical Physics ★ Конструирование алгоритмов и решение задач математической физики. (Russian) [Construction of algorithms and the solution of problems in mathematical physics] **94e:00012**
BAIL ★ BAIL VI. **94b:00021**
Combinatorial-algebraic and probabilistic methods in discrete analysis ★ Комбинаторно-алгебраические и вероятностные методы дискретного анализа. (Russian) [Combinatorial-algebraic and probabilistic methods in discrete analysis] **94b:00022**
Conference:
Boundary and Interior Layers—Computational and Asymptotic Methods ★ BAIL VI. **94b:00021**
Differential and Integral Equations and their Applications ★ Республиканская Научная Конференция "Дифференциальные и Интегральные Уравения и их Приложения". Часть 1, 2. (Russian) [Republic Scientific Conference on "Differential and Integral Equations and their Applications". Part 1, 2]
Lithuanian Mathematical Society ★ Lietuvos Matematikų Draugijos XXXII Konferencija. (Lithuanian) [XXXII Conference of the Lithuanian Mathematical Society]
Congress:
Computational and Applied Mathematics ★ IMACS '91. Vol. 1–4. **94b:00023**
Construction of algorithms and the solution of problems in mathematical physics
★ Конструирование алгоритмов и решение задач математической физики. (Russian) [Construction of algorithms and the solution of problems in mathematical physics] **94e:00012**
Copper Mountain, CO ★ BAIL VI. **94b:00021**
Differential equations and optimal control ★ Дифференциальные уравнения и оптимальное управление. (Russian) [Differential equations and optimal control] **94g:00018**
Dublin ★ IMACS '91. Vol. 1–4. **94b:00023**
IMACS '91 ★ IMACS '91. Vol. 1–4. **94b:00023**
Krasnovidovo ★ Конструирование алгоритмов и решение задач математической физики. (Russian) [Construction of algorithms and the solution of problems in mathematical physics] **94e:00012**
Leipzig ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] **94b:00025**
Meeting:
GAMM ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] **94b:00025**
Unión Matemática Argentina Summaries of the papers presented at the XXXIXth annual meeting of the Unión Matemática Argentina (Rosario, 1989). (Spanish)
— Summaries of the papers presented at the XLth annual meeting of the Unión Matemática Argentina (San Luis, 1990). (Spanish)
— List of the papers presented at the XLIst annual meeting of the Unión Matemática Argentina (Santa Fe, 1991). (Spanish)
— List of the papers presented at the XLIInd annual meeting of the Unión Matemática Argentina (Tandil, 1992). (Spanish)
— List of the papers presented at the XLIIIrd annual meeting of the Unión Matemática Argentina (Neuquén, 1993). (Spanish)
Nonlinear boundary value problems in mathematical physics and their applications
★ Нелинейные краевые задачи математической физики и их приложения. (Russian) [Nonlinear boundary value problems in mathematical physics and their applications] **94b:00024**
Odessa ★ Республиканская Научная Конференция "Дифференциальные и Интегральные Уравения и их Приложения". Часть 1, 2. (Russian) [Republic Scientific Conference on "Differential and Integral Equations and their Applications". Part 1, 2]
Proceedings:
Meeting of the GAMM ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] **94b:00025**
Reports:
Seminar of the I. N. Vekua Institute of Applied Mathematics, Extended Sessions
★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векуа. Том 6, вып. 1. (Russian) [Reports of the extended sessions of the Seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 6, no. 1] **94e:00013a**
— ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векуа. Том 6, вып. 2. (Russian) [Reports of the extended sessions of the Seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 6, no. 2] **94e:00013b**
— ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векуа. Том 6, вып. 3. (Russian) [Reports of the extended sessions of the Seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 6, no. 3] **94e:00013c**
Seminar:
Vekua Institute of Applied Mathematics ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векуа. Том 6, вып. 1. (Russian) [Reports of the extended sessions of the Seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 6, no. 1] **94e:00013a**
— ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векуа. Том 6, вып. 2. (Russian) [Reports of the extended sessions of the Seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 6, no. 2] **94e:00013b**
— ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векуа. Том 6, вып. 3. (Russian) [Reports of the extended sessions of the Seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 6, no. 3] **94e:00013c**
Seminar: (*cont'd.*)
им. И. Н. Векуа. Том 6, вып. 2. (Russian) [Reports of the extended sessions of the Seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 6, no. 2] **94e:00013b**
— ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векуа. Том 6, вып. 3. (Russian) [Reports of the extended sessions of the Seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 6, no. 3] **94e:00013c**
Tbilisi ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векуа. Том 6, вып. 1. (Russian) [Reports of the extended sessions of the Seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 6, no. 1] **94e:00013a**
— ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векуа. Том 6, вып. 2. (Russian) [Reports of the extended sessions of the Seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 6, no. 2] **94e:00013b**
— ★ Доклады расширенных заседаний семинара Института прикладной математики им. И. Н. Векуа. Том 6, вып. 3. (Russian) [Reports of the extended sessions of the Seminar of the I. N. Vekua Institute of Applied Mathematics. Vol. 6, no. 3] **94e:00013c**
Vilnius ★ Lietuvos Matematikų Draugijos XXXII Konferencija. (Lithuanian) [XXXII Conference of the Lithuanian Mathematical Society]

Items with secondary classifications in 00B05

(Feichtinger, Gustav) *see* **Symposium: Operations Research, 94c:90005**
(Hartl, Richard F.) *see* **Symposium: Operations Research, 94c:90005**
(Janko, W. H.) *see* **Symposium: Operations Research, 94c:90005**
(Karmann, Alexander J.) *see* **Operations research '92, 94b:90007**
(Katzenberger, W. E.) *see* **Symposium: Operations Research, 94c:90005**
(Mosler, Karl) *see* **Operations research '92, 94b:90007**
(Schader, Martin) *see* **Operations research '92, 94b:90007**
(Stepan, A.) *see* **Symposium: Operations Research, 94c:90005**
(Uebe, Götz) *see* **Operations research '92, 94b:90007**

Items listed otherwise than by author

Hamburg ★ Operations research '92. **94b:90007**
Operations research '92 ★ Operations research '92. **94b:90007**
Symposium:
Operations Research ★ XV Symposium on Operations Research. **94c:90005**
— ★ Operations research '92. **94b:90007**
Vienna ★ XV Symposium on Operations Research. **94c:90005**

00B10 Collections of articles of general interest

(Arnol'd, V. I.) *see* **Developments in mathematics: the Moscow school, 94i:00009**
(Emmer, Michele) *see* **Visual mind, 94h:00013**
(Khalfa, Jean) *see* **What is intelligence, 94m:00013**
(Monastyrskiĭ, M. I.) *see* **Developments in mathematics: the Moscow school, 94i:00009**

Items listed otherwise than by author

Developments in mathematics: the Moscow school ★ Developments in mathematics: the Moscow school. **94i:00009**
Proceedings:
Berlin Mathematical Society ★ Sitzungsberichte der Berliner Mathematischen Gesellschaft. (German) [Proceedings of the Berlin Mathematical Society] **94m:00012**
Visual mind ★ The visual mind. **94h:00013**
What is intelligence ★ What is intelligence? **94m:00013**

Items with secondary classifications in 00B10

(Duren, Peter L.) *see* **Golden years of Moscow mathematics, 94j:01001**
(Hinsley, F. H.) *see* **Codebreakers, 94d:01044**
(Stripp, Alan) *see* **Codebreakers, 94d:01044**
(Zdravkovska, Smilka) *see* **Golden years of Moscow mathematics, 94j:01001**

Items listed otherwise than by author

Codebreakers ★ Codebreakers. **94d:01044**
Golden years of Moscow mathematics ★ Golden years of Moscow mathematics. **94j:01001**

00B15 Collections of articles of miscellaneous specific content

(Agaev, G. N.) *see* **Some problems in the theory of nonlinear analysis, 94d:00017**
(Balk, M. B.) *see* **Studies in polyanalytic functions and their generalizations, 94c:00021**
(Basharin, G. P.) *see* **Mathematical modeling of systems, 94b:00030**
(Bazykin, A.) *see* **Mathematics and modelling, 94i:00011**
(Boikov, I. V.) *see* **Optimal computation methods and their application to information processing, 94h:00014**
(Borisovich, Yu. G.) *see* **Global analysis—studies and applications, 94d:00013**
(Brézis, Haïm) *see* **Nonlinear partial differential equations and their applications. Collège de France Seminar, 94j:00014**
(Brualdi, Richard A.) *see* **Combinatorial and graph-theoretical problems in linear algebra, 94d:00012**
(Chatterji, S. D.) *see* **Yearbook: Surveys on mathematics, 94i:00013**
(Chebyshev, P. L.) *see* **Topics in polynomials of one and several variables and their applications, 94m:00020**
(Cheng, Min De) *see* **Chinese mathematics into the 21st century, 94b:00026**
(Chentsov, A. G.) *see* **Relaxations of nonlinear extremal problems, 94c:00020**
(Chernetskiĭ, V. I.) *see* **Optimization problems and models in applied mathematics, 94d:00016**
(Coen, Salvatore) *see* **Seminar: Geometry, 94j:00015**
(Corwin, Lawrence) *see* **Seminar: Gel'fand Mathematical, 94e:00018**
(Dyatlov, V. P.) *see* **Relaxations of nonlinear extremal problems, 94c:00020**
(Friedland, Shmuel) *see* **Combinatorial and graph-theoretical problems in linear algebra, 94d:00012**
(Fuchssteiner, Benno) *see* **Yearbook: Surveys on mathematics, 94i:00013**
(Gabdulkhaev, B. G.) *see* **Constructive theory of functions and functional analysis, 94b:00028**

(Gel′fand, I. M.) *see* **Seminar: Gel′fand Mathematical, 94e:00018**
(Gliklikh, Yu. E.) *see* **Global analysis—studies and applications, 94d:00013** *and* **Methods and applications of global analysis, 94m:00017**
(Gol′dberg, A. A.) *see* **Mathematical investigations, 94k:00014**
(Ivlev, D. D.) *see* **Investigations in boundary value problems and their applications, 94i:00010**
(Izmailova, Z. A.) *see* **Probability theory and mathematical statistics, 94h:00015**
(Kalis, Harijs Edmunds) *see* **Mathematical modeling, 94d:00014**
(Kamran, Niky) *see* **Lie algebras, cohomology, and new applications to quantum mechanics, 94m:00016**
(Kharlamov, M. P.) *see* **Mathematical modeling in problems of mechanics and control, 94b:00029**
(Klee, Victor) *see* **Combinatorial and graph-theoretical problems in linear algebra, 94d:00012**
(Koptev, Yu. I.) *see* **Mathematical physics, applied mathematics and informatics, 94e:00016**
(Korolev, L. N.) *see* **Software and models of systems analysis, 94b:00034**
(Kostrikin, Aleksei Ivanovich) *see* **Algebra, geometry and discrete mathematics in nonlinear problems, 94m:00014** *and* **Selected problems in algebra, geometry and discrete mathematics, 94m:00019**
(Köthe, Gottfried) *see* **Dedicated to the memory of Professor Gottfried Köthe**
(Kowalski, Jan Krzysztof) *see* **Numerical analysis and mathematical modelling, 94m:00018**
(Krasnoshchekov, P. S.) *see* **Software and models of systems analysis, 94b:00034**
(Kulisch, Ulrich) *see* **Yearbook: Surveys on mathematics, 94i:00013**
(Lavrent′ev, M. M.) *see* **Investigations on the conditional well-posedness of problems in mathematical physics, 94e:00015**
(Lawrynowicz, Julian) *see* **Deformations of mathematical structures, 94m:00015**
(Lepowsky, James) *see* **Seminar: Gel′fand Mathematical, 94e:00018**
(Liedl, Roman) *see* **Yearbook: Surveys on mathematics, 94i:00013**
(Lions, Jacques-Louis) *see* **Nonlinear partial differential equations and their applications. Collège de France Seminar, 94j:00014**
(Lupanov, O. B.) *see* **Algebra, geometry and discrete mathematics in nonlinear problems, 94m:00014** *and* **Selected problems in algebra, geometry and discrete mathematics, 94m:00019**
(Malanin, V. V.) *see* **Problems in the mechanics of controllable motion, 94f:00020**
(Marchenko, V. A.) *see* **Dynamical systems and complex analysis, 94e:00014**
(Mikhailov, G. A.) *see* **Theory and applications of statistical modeling, 94b:00035**
(Mikhailov, I. D.) *see* **Mathematical modeling of systems, 94b:00030**
(Moldavanskiĭ, D. I.) *see* **Algebraic systems, 94d:00011** *and* **Algebraic and discrete systems, 94f:00014**
(Nishiyama, Tetsuya) *see* **Collection of articles to commemorate the tenth anniversary of the Graduate School of the Hiroshima University School of Education, 94b:00027**
(Novikov, S. P.) *see* **Algebra, geometry and discrete mathematics in nonlinear problems, 94m:00014** *and* **Selected problems in algebra, geometry and discrete mathematics, 94m:00019**
(Olver, Peter J.) *see* **Lie algebras, cohomology, and new applications to quantum mechanics, 94m:00016**
(Pinchuk, S. I.) *see* **Complex analysis and differential equations, 94f:00015**
(Rassias, Themistocles M.) *see* **Topics in polynomials of one and several variables and their applications, 94m:00020**
(Sergievskiĭ, A. V.) *see* **Mathematical modeling and optimization, 94d:00015**
(Sherstnev, A. N.) *see* **Constructive theory of functions and functional analysis, 94b:00028**
(Shevlyakov, Yu. A.) *see* **Dynamical systems, 94f:00016**
(Shostak, A. P.) *see* **Mathematics, 94b:00031**
(Slugin, S. N.) *see* **Methods of applied functional analysis, 94f:00018** *and* **94f:00019**
(Srivastava, Hari M.) *see* **Topics in polynomials of one and several variables and their applications, 94m:00020**
(Tsyganova, N. Ya.) *see* **Differential equations and applied problems, 94c:00019**
(Valverde, Llorenç) *see* **IPMU '92, 94j:00008**
(Wakulicz, Andrzej) *see* **Numerical analysis and mathematical modelling, 94m:00018**
(Wu, Wen Jun) *see* **Chinese mathematics into the 21st century, 94b:00026**
(Yager, Ronald R.) *see* **IPMU '92, 94j:00008**
(Yakubov, S. Ya.) *see* **Some problems in the theory of nonlinear analysis, 94d:00017**
(Yanushauskas, A. I.) *see* **Topics in polynomials of one and several variables and their applications, 94m:00020**
(Yazenin, A. V.) *see* **Fuzzy systems: models and program tools, 94f:00017**
(Zarkhin, Yu. G.) *see* **Mathematics and modelling, 94i:00011**
(Zhitomirskiĭ, G. I.) *see* **Theory of semigroups and its applications, 94j:00017**

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Algebra, geometry and discrete mathematics in nonlinear problems ★ Алгебра, геометрия и дискретная математика в нелинейных задачах. (Russian) [Algebra, geometry and discrete mathematics in nonlinear problems] **94m:00014**
Algebraic analysis and number theory ★ Algebraic analysis and number theory. **94f:00013**
Algebraic and discrete systems ★ Алгебраические и дискретные системы. (Russian) [Algebraic and discrete systems] **94f:00014**
Algebraic systems ★ Алгебраические системы. (Russian) [Algebraic systems] **94d:00011**
Biography:
  Chebyshev, P. L. ★ Topics in polynomials of one and several variables and their applications. **94m:00020**
Chinese mathematics into the 21st century ★ Chinese mathematics into the 21st century. **94b:00026**
Clermont-Ferrand ★ Séminaire d'Analyse. 5. 1989–1990. (French) [Seminar on Analysis. 5. 1989–1990] **94h:00017**
Collection of articles to commemorate the tenth anniversary of the Graduate School of the Hiroshima University School of Education ★ Hiroshima Daigaku Daigakuin Gakkō Kyōiku Kenkyuka ju shunen kinen rombunshu. (Japanese) [A collection of articles to commemorate the tenth anniversary of the Graduate School of the Hiroshima University School of Education] **94b:00027**
Combinatorial and graph-theoretical problems in linear algebra ★ Combinatorial and graph-theoretical problems in linear algebra. **94d:00012**
Complex analysis and differential equations ★ Комплексный анализ и дифференциальные уравнения. (Russian) [Complex analysis and differential equations] **94f:00015**
Conference:
  Information Processing and Management of Uncertainty in Knowledge-based Systems ★ IPMU '92. **94j:00008**
Constructive theory of functions and functional analysis ★ Конструктивная теория функций и функциональный анализ. Вып. 8. (Russian) [Constructive theory of functions and functional analysis. No. 8] **94b:00028**
Contemporary Mathematics ★ Lie algebras, cohomology, and new applications to quantum mechanics. **94m:00016**
Dedicated to the memory of Professor Gottfried Köthe ★ Dedicated to the memory of Professor Gottfried Köthe.
— ★ Dedicated to the memory of Professor Gottfried Köthe.
Deformations of mathematical structures ★ Deformations of mathematical structures. II. **94m:00015**
Differential equations and applied problems ★ Дифференциальные уравнения и прикладные задачи. (Russian) [Differential equations and applied problems] **94c:00019**
Dynamical systems ★ Динамические системы. Вып. 11. (Russian) [Dynamical systems. No. 11] **94f:00016**
Dynamical systems and complex analysis ★ Динамические системы и комплексный анализ. (Russian) [Dynamical systems and complex analysis] **94e:00014**
Fuzzy systems: models and program tools ★ Нечеткие системы: модели и программные средства. (Russian) [Fuzzy systems: models and program tools] **94f:00017**
Global analysis—studies and applications ★ Global analysis—studies and applications. V. **94d:00013**
Investigations in boundary value problems and their applications ★ Исследования по краевым задачам и их приложениям. (Russian) [Investigations in boundary value problems and their applications] **94i:00010**
Investigations on the conditional well-posedness of problems in mathematical physics ★ Исследования по условной корректности задач математической физики. (Russian) [Investigations on the conditional well-posedness of problems in mathematical physics] **94e:00015**
IPMU '92 ★ IPMU '92. **94j:00008**
Jahrbuch Überblicke Mathematik ★ Jahrbuch Überblicke Mathematik. 1994. (German) [Yearbook surveys on mathematics. 1994] **94i:00013**
Kyoto ★ Algebraic analysis and number theory. **94f:00013**
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(Wagner, Gerd) *see* **Logics in AI, 94c:68005**
(Webers, Wigor) *see* **Inverse problems: principles and applications in geophysics, technology, and medicine, 94d:35002**
(Zolotarev, V. M.) *see* **Stability problems for stochastic models, 94f:60002**

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All-Union Seminar:
Stability Problems for Stochastic Models ★ Проблемы устойчивости стохастических моделей. (Russian summary) [Stability problems for stochastic models] **94f:60002**
Berlin ★ Logics in AI. **94c:68005**
Blydepoort ★ Chaos and quantum chaos. **94f:81042**
Camerino ★ I fondamenti della meccanica quantistica. (Italian) [The foundations of quantum mechanics] **94b:81004**
Chaos and quantum chaos ★ Chaos and quantum chaos. **94f:81042**
Colloquium:
Gödel, Kurt Friedrich ★ Kurt Gödel. (French) **94c:03003**
Conference:
Artificial Intelligence ★ GWAI-92: Advances in artificial intelligence. **94e:68012**
Foundations of Quantum Mechanics ★ I fondamenti della meccanica quantistica. (Italian) [The foundations of quantum mechanics] **94b:81004**
Fuzzy Sets Theory and its Applications ★ Fuzzy sets. **94b:04001**
Integrable Systems ★ Integrable systems. **94m:58001**
Inverse Problems: Principles and Applications in Geophysics, Technology, and Medicine ★ Inverse problems: principles and applications in geophysics, technology, and medicine. **94d:35002**
Mathematical Population Dynamics ★ Mathematical population dynamics. **94b:92001**
Topology and Measure ★ Topology, measures, and fractals. **94a:28001**
Continued fractions and orthogonal functions ★ Continued fractions and orthogonal functions. **94i:30001**
Foundations of quantum mechanics ★ I fondamenti della meccanica quantistica. (Italian) [The foundations of quantum mechanics] **94b:81004**
Fuzzy sets ★ Fuzzy sets. **94b:04001**
GWAI-92: Advances in artificial intelligence ★ GWAI-92: Advances in artificial intelligence. **94e:68012**
Integrable systems ★ Integrable systems. **94m:58001**
Inverse problems: principles and applications in geophysics, technology, and medicine ★ Inverse problems: principles and applications in geophysics, technology, and medicine. **94d:35002**
Kharkov ★ Проблемы устойчивости стохастических моделей. (Russian summary) [Stability problems for stochastic models] **94f:60002**
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Lecture Notes in Computer Science ★ Word equations and related topics. **94b:68026**
— ★ Logics in AI. **94c:68005**
— ★ GWAI-92: Advances in artificial intelligence. **94e:68012**
Lecture Notes in Physics ★ Chaos and quantum chaos. **94f:81042**
Lectures on mathematical physics ★ Lectures on mathematical physics. **94b:81005**
Liptovský Mikuláš ★ Fuzzy sets. **94b:04001**
Loen ★ Continued fractions and orthogonal functions. **94i:30001**
Logics in AI ★ Logics in AI. **94c:68005**
Luminy ★ Integrable systems. **94m:58001**
Mathematical population dynamics ★ Mathematical population dynamics. **94b:92001**
Minneapolis, MN ★ On the evolution of phase boundaries. **94b:35004**
Neuchâtel ★ Kurt Gödel. (French) **94c:03003**
New Brunswick, NJ ★ Mathematical population dynamics. **94b:92001**
Oberwolfach The Thirtieth International Symposium on Functional Equations, September 20–26, 1992, Oberwolfach, Germany. **94j:39001**
Obituary:
Verdier, Jean-Louis ★ Integrable systems. **94m:58001**
On the evolution of phase boundaries ★ On the evolution of phase boundaries. **94b:35004**
Potsdam ★ Inverse problems: principles and applications in geophysics, technology, and medicine. **94d:35002**
Progress in Mathematics ★ Integrable systems. **94m:58001**
Progress in partial differential equations: the Metz surveys ★ Progress in partial differential equations: the Metz surveys. **94g:35003**
School:
Mathematical Physics ★ Lectures on mathematical physics. **94b:81005**
Theoretical Physics ★ Chaos and quantum chaos. **94f:81042**
Selection of papers presented at the symposium "Logic at Tver '92" ★ A selection of papers presented at the symposium "Logic at Tver '92". **94m:03011**
Sorak Mountain Resort ★ Lectures on mathematical physics. **94b:81005**
Stability problems for stochastic models ★ Проблемы устойчивости стохастических моделей. (Russian summary) [Stability problems for stochastic models] **94f:60002**
Symposium:
Functional Equations The Thirtieth International Symposium on Functional Equations, September 20–26, 1992, Oberwolfach, Germany. **94j:39001**
Logic at Tver '92 ★ A selection of papers presented at the symposium "Logic at Tver '92". **94m:03011**
Logical Foundations of Computer Science ★ A selection of papers presented at the symposium "Logic at Tver '92". **94m:03011**
Topology, measures, and fractals ★ Topology, measures, and fractals. **94a:28001**
Tübingen ★ Word equations and related topics. **94b:68026**
Tver' ★ A selection of papers presented at the symposium "Logic at Tver '92". **94m:03011**
Warnemünde ★ Topology, measures, and fractals. **94a:28001**
Word equations and related topics ★ Word equations and related topics. **94b:68026**
Workshop:
Continued Fractions and Orthogonal Functions ★ Continued fractions and orthogonal functions. **94i:30001**
Logics in AI ★ Logics in AI. **94c:68005**
On the Evolution of Phase Boundaries ★ On the evolution of phase boundaries. **94b:35004**
Word Equations and Related Topics ★ Word equations and related topics. **94b:68026**

00B30 Festschriften

(Agmon, Shmuel) *see* **Festschrift: Agmon, Shmuel, 94b:00044** *and* **94b:00045**
(Arasu, K. T.) *see* **Coding theory, design theory, group theory, 94b:00043**
(Aschbacher, Michael) *see* **Coding theory, design theory, group theory, 94b:00043**
(Dinitz, Jeffrey H.) *see* **Coding theory, design theory, group theory, 94b:00043**
(Elworthy, K. D.) *see* **Differential equations, dynamical systems, and control science, 94d:00021**

(Everitt, W. Norrie) *see* **Differential equations, dynamical systems, and control science, 94d:00021**
(Foote, Richard M.) *see* **Coding theory, design theory, group theory, 94b:00043**
(Freudenthal, Hans) *see* **Legacy of Hans Freudenthal, 94m:00036**
(Fuchssteiner, Benno) *see* **Analysis and geometry, 94m:00034**
(Gel'fand, I. M.) *see* **Seminar: Gel'fand, I. M., Functional Analysis, 94d:00022** *and* **94d:00023**
(Gel'fand, S. I.) *see* **Seminar: Gel'fand, I. M., Functional Analysis, 94d:00022** *and* **94d:00023**
(Gindikin, S. G.) *see* **Seminar: Gel'fand, I. M., Functional Analysis, 94d:00022** *and* **94d:00023**
(Hall, Marshall, Jr.) *see* **Coding theory, design theory, group theory, 94b:00043**
(John, Fritz) *see* **Trends and perspectives in applied mathematics, 94m:00037**
(Jungnickel, Dieter) *see* **Coding theory, design theory, group theory, 94b:00043**
(Laugwitz, Detlef) *see* **Analysis and geometry, 94m:00034**
(Lee, E. Bruce) *see* **Differential equations, dynamical systems, and control science, 94d:00021**
(Luxemburg, W. A. J.) *see* **Analysis and geometry, 94m:00034**
(Markus, Lawrence) *see* **Differential equations, dynamical systems, and control science, 94d:00021**
(Palais, Richard S.) *see* **Global analysis in modern mathematics, 94m:00035**
(Ramanathan, K. G.) *see* **Memorial Issue: Ramanathan, K. G.**
Remmert, Reinhold Les premières années d'Inventiones Mathematicae. (French summary) [The early years of Inventiones Mathematicae]
(Sirovich, Lawrence) *see* **Trends and perspectives in applied mathematics, 94m:00037**
(Streefland, Leen) *see* **Legacy of Hans Freudenthal, 94m:00036**
(Uhlenbeck, Karen K.) *see* **Global analysis in modern mathematics, 94m:00035**
(Vanstone, Scott A.) *see* **Coding theory, design theory, group theory, 94b:00043**
(Yang, Chen Ning) *see* **Proceedings: Nonlinear Science Symposium, 94b:00046**

Items listed otherwise than by author

Analysis and geometry ★ Analysis and geometry. **94m:00034**
Birthday:
Agmon, Shmuel ★ {Festschrift on the occasion of the 70th birthday of Shmuel Agmon}. **94b:00044**
— ★ {Festschrift on the occasion of the 70th birthday of Shmuel Agmon}. **94b:00045**
Gel'fand, I. M. ★ I. M. Gel'fand Seminar. **94d:00022**
— ★ I. M. Gel'fand Seminar. **94d:00023**
Laugwitz, Detlef ★ Analysis and geometry. **94m:00034**
Palais, Richard S. ★ Global analysis in modern mathematics. **94m:00035**
Yang, Chen Ning ★ 1992 nian feixianxing kexue taolunhui wenji. (Chinese) [Proceedings of the 1992 Nonlinear Science Symposium] **94b:00046**
Burlington, VT ★ Coding theory, design theory, group theory. **94b:00043**
Coding theory, design theory, group theory ★ Coding theory, design theory, group theory. **94b:00043**
Conference:
Coding Theory, Design Theory and Group Theory ★ Coding theory, design theory, group theory. **94b:00043**
Differential equations, dynamical systems, and control science ★ Differential equations, dynamical systems, and control science. **94d:00021**
Festschrift:
Agmon, Shmuel ★ {Festschrift on the occasion of the 70th birthday of Shmuel Agmon}. **94b:00044**
— ★ {Festschrift on the occasion of the 70th birthday of Shmuel Agmon}. **94b:00045**
Laugwitz, Detlef ★ Analysis and geometry. **94m:00034**
Markus, Lawrence ★ Differential equations, dynamical systems, and control science. **94d:00021**
Global analysis in modern mathematics ★ Global analysis in modern mathematics. **94m:00035**
Hefei ★ 1992 nian feixianxing kexue taolunhui wenji. (Chinese) [Proceedings of the 1992 Nonlinear Science Symposium] **94b:00046**
Legacy of Hans Freudenthal ★ The legacy of Hans Freudenthal. **94m:00036**
Memorial Issue:
Ramanathan, K. G. ★ K. G. Ramanathan memorial issue.
Obituary:
John, Fritz ★ Trends and perspectives in applied mathematics. **94m:00037**
Orono, ME ★ Global analysis in modern mathematics. **94m:00035**
Proceedings:
Nonlinear Science Symposium ★ 1992 nian feixianxing kexue taolunhui wenji. (Chinese) [Proceedings of the 1992 Nonlinear Science Symposium] **94b:00046**
Seminar:
Gel'fand, I. M., Functional Analysis ★ I. M. Gel'fand Seminar. **94d:00022**
— ★ I. M. Gel'fand Seminar. **94d:00023**
Symposium:
Nonlinear Science ★ 1992 nian feixianxing kexue taolunhui wenji. (Chinese) [Proceedings of the 1992 Nonlinear Science Symposium] **94b:00046**
Palais, Richard S. ★ Global analysis in modern mathematics. **94m:00035**
Trends and perspectives in applied mathematics ★ Trends and perspectives in applied mathematics. **94m:00037**
Waltham, MA ★ Global analysis in modern mathematics. **94m:00035**

Items with secondary classifications in 00B30

(Abarbanel, Saul) *see* **Special Issue: Abarbanel, Saul S., 94b:65006**
(Ando, Tsuyoshi) *see* **Contributions to operator theory and its applications, 94m:47003**
(Babelon, Olivier) *see* **Integrable systems, 94m:58001**
(Busard, Hubertus Lambertus Ludovicus) *see* **Vestigia mathematica, 94h:01001**
(Cartier, Pierre) *see* **Integrable systems, 94m:58001**
(Chebyshev, P. L.) *see* **Topics in polynomials of one and several variables and their applications, 94m:00020**
(Folkerts, M.) *see* **Vestigia mathematica, 94h:01001**
(Furuta, Takayuki) *see* **Contributions to operator theory and its applications, 94m:47003**
(Gohberg, Israel) *see* **Contributions to operator theory and its applications, 94m:47003**
(Gottlieb, David) *see* **Special Issue: Abarbanel, Saul S., 94b:65006**
(Hogendijk, Jan P.) *see* **Vestigia mathematica, 94h:01001**
(Kosmann-Schwarzbach, Yvette) *see* **Integrable systems, 94m:58001**
(Nakazi, Takahiko) *see* **Contributions to operator theory and its applications, 94m:47003**
(Rassias, Themistocles M.) *see* **Topics in polynomials of one and several variables and their applications, 94m:00020**
(Saleh, A. K. Md. Ehsanes) *see* **Nonparametric statistics and related topics, 94a:62001**
(Srivastava, Hari M.) *see* **Topics in polynomials of one and several variables and their applications, 94m:00020**
(Turkel, Eli) *see* **Special Issue: Abarbanel, Saul S., 94b:65006**
(Verdier, Jean-Louis) *see* **Integrable systems, 94m:58001**
(Yanushauskas, A. I.) *see* **Topics in polynomials of one and several variables and their applications, 94m:00020**

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Biography:
Chebyshev, P. L. ★ Topics in polynomials of one and several variables and their applications. **94m:00020**
Conference:
Integrable Systems ★ Integrable systems. **94m:58001**
Contributions to operator theory and its applications ★ Contributions to operator theory and its applications. **94m:47003**
Festschrift:
Abarbanel, Saul S. ★ Special issue to honor Professor Saul Abarbanel on his sixtieth birthday. **94b:65006**
Busard, Hubertus Lambertus Ludovicus ★ Vestigia mathematica. **94h:01001**
Integrable systems ★ Integrable systems. **94m:58001**
Luminy ★ Integrable systems. **94m:58001**
Memorial:
Chebyshev, P. L. ★ Topics in polynomials of one and several variables and their applications. **94m:00020**
Neveh ★ Special issue to honor Professor Saul Abarbanel on his sixtieth birthday. **94b:65006**
Nonparametric statistics and related topics ★ Nonparametric statistics and related topics. **94a:62001**
Obituary:
Verdier, Jean-Louis ★ Integrable systems. **94m:58001**
Ottawa, ON ★ Nonparametric statistics and related topics. **94a:62001**
Progress in Mathematics ★ Integrable systems. **94m:58001**
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Abarbanel, Saul S. ★ Special issue to honor Professor Saul Abarbanel on his sixtieth birthday. **94b:65006**
Symposium:
Nonparametric Statistics and Related Topics ★ Nonparametric statistics and related topics. **94a:62001**
Topics in polynomials of one and several variables and their applications ★ Topics in polynomials of one and several variables and their applications. **94m:00020**
Vestigia mathematica ★ Vestigia mathematica. **94h:01001**
Workshop:
Advanced Scientific Computing in the 90's ★ Special issue to honor Professor Saul Abarbanel on his sixtieth birthday. **94b:65006**

00B50 Volumes of selected translations

(Birman, M. Sh.) *see* **Wave propagation. Scattering theory, 94g:00020**
(Ivanov, Simeon) *see* **Wave propagation. Scattering theory, 94g:00020**
(Zhevandrov, P. N.) *see* **Wave propagation. Scattering theory, 94g:00020**

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American Mathematical Society Translations, Series 2 ★ Wave propagation. Scattering theory. **94g:00020**
Selected translations ★ Selected translations. **94b:00047**
— ★ Selected translations. **94f:00034**
— ★ Selected translations. **94f:00035**
Siberian Advances in Mathematics ★ Siberian Advances in Mathematics. **94b:00048**
— ★ Siberian Advances in Mathematics. **94c:00028**
— ★ Siberian Advances in Mathematics. **94h:00022**
— ★ Siberian Advances in Mathematics. **94m:00038**
Sugaku Expositions ★ Sugaku Expositions. **94f:00036**
— ★ Sugaku Expositions. **94m:00039**
Wave propagation. Scattering theory ★ Wave propagation. Scattering theory. **94g:00020**

00B55 Miscellaneous volumes of translations

Dynamic systems ★ Dynamic systems. No. 5. **94d:00024**
Dynamical systems ★ Dynamical systems. No. 7. **94b:00049**
— ★ Dynamical systems. No. 8. **94b:00050**

Items with secondary classifications in 00B55

(Naidu, P. S. V.) *see* **Integral operators and boundary properties of functions. Fourier series, 94b:42001**
(Tsereteli, O. D.) *see* **Integral operators and boundary properties of functions. Fourier series, 94b:42001**

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Current problems in mathematics. Newest results ★ Current problems in mathematics. Newest results. Vol. 38. **94a:58001**
Integral operators and boundary properties of functions. Fourier series ★ Integral operators and boundary properties of functions. Fourier series. **94b:42001**
Nonlinear equations and variational inequalities. Linear operators and spectral theory ★ Nonlinear equations and variational inequalities. Linear operators and spectral theory. **94b:00032**

Theory of random processes ★ Theory of random processes. No. 16. **94i:60002**

00B60 Collections of reprinted articles [see also 01A75]

Items with secondary classifications in 00B60

(Huijsmans, C. B.) *see* **Positive operators and semigroups on Banach lattices, 94c:47002**
(Johnson, Norman Lloyd²) *see* **Breakthroughs in statistics, 94d:62001a** *and* **94d:62001b**
(Kotz, Samuel) *see* **Breakthroughs in statistics, 94d:62001a** *and* **94d:62001b**
(Luxemburg, W. A. J.) *see* **Positive operators and semigroups on Banach lattices, 94c:47002**
Suppes, Patrick ★ Models and methods in the philosophy of science: selected essays. (English summary) **94k:03004**

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Breakthroughs in statistics ★ Breakthroughs in statistics. Vol. I. **94d:62001a**
— ★ Breakthroughs in statistics. Vol. II. **94d:62001b**
Conference:
  Positive Operators and Semigroups on Banach Lattices ★ Positive operators and semigroups on Banach lattices. **94c:47002**
Curaçao ★ Positive operators and semigroups on Banach lattices. **94c:47002**
Positive operators and semigroups on Banach lattices ★ Positive operators and semigroups on Banach lattices. **94c:47002**

01–XX History and biography [see also the classification number –03 in the other sections]

01–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Barbieri, Francesco (*with* Pepe, Luigi) Italian bibliography of the history of mathematics, 1961–1990. (Italian) **94b:01001**
Pepe, Luigi *see* **Barbieri, Francesco, 94b:01001**

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Bibliography:
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Items with secondary classifications in 01–00

(Howson, Albert Geoffrey) *see* **Wallis, R. V., 94e:01015**
Wallis, Peter John *see* **Wallis, R. V., 94e:01015**
Wallis, R. V. (*with* Wallis, Peter John) ★ Index of British mathematicians. Part III. **94e:01015**

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Index:
  British mathematicians *see* **Wallis, R. V., 94e:01015**

01–01 Instructional exposition (textbooks, tutorial papers, etc.)

Burton, David M. ★ The history of mathematics. **94b:01002**
Katz, Victor J. ★ A history of mathematics. **94b:01003**

Items with secondary classifications in 01–01

Grootendorst, A. W. Introduction. (Dutch) **94i:11001**
Xie, En Ze *see* **Xu, Ben Shun, 94a:00004**
Xu, Ben Shun (*with* Xie, En Ze) ★ Shuxue caixiang—ta de sixiang yu fangfa. (Chinese) [Mathematical conjectures—their ideology and methodology] **94a:00004**

01–02 Research exposition (monographs, survey articles)

Demidov, S. S. A brief survey of the literature on the development of mathematics in the USSR. (*see* **94j:01001**)

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Bibliography:
  Development of mathematics in the USSR *see* **Demidov, S. S., (94j:01001)**

Items with secondary classifications in 01–02

Hasle, Per *see* **Øhrstrøm, Peter, 94i:03054**
Kellert, Stephen H. ★ In the wake of chaos. (English summary) **94j:58112**
Øhrstrøm, Peter (*with* Hasle, Per) A. N. Prior's rediscovery of tense logic. **94i:03054**
Palmer, Edgar M. Quo vadis, random graph theory? (English summary) **94b:05173**
Shenitzer, A. (*with* Stepräns, Juris) The evolution of integration. **94j:26001**
Stepräns, Juris *see* **Shenitzer, A., 94j:26001**

01–06 Proceedings, conferences, collections, etc.

(Busard, Hubertus Lambertus Ludovicus) *see* **Vestigia mathematica, 94h:01001**
(Duren, Peter L.) *see* **Golden years of Moscow mathematics, 94j:01001**
(Eichhorn, Eugen) *see* **Lectures in memoriam Felix Hausdorff, 94m:01001**
(Folkerts, M.) *see* **Vestigia mathematica, 94h:01001**
(Hausdorff, Felix) *see* **Lectures in memoriam Felix Hausdorff, 94m:01001**
(Hogendijk, Jan P.) *see* **Vestigia mathematica, 94h:01001**
(Lobachevskiĭ, N. I.) *see* **Dedicated to the memory of Lobachevskiĭ, 94c:01001**
(Mueller, Ian) *see* **On mathematics, 94e:01002**
(Shirokov, A. P.) *see* **Dedicated to the memory of Lobachevskiĭ, 94c:01001**
(Thiele, Ernst-Jochen) *see* **Lectures in memoriam Felix Hausdorff, 94m:01001**
(Trifunović, Dragan) *see* **Serbian contributions to the mathematical sciences, 94k:01001**
(Zdravkovska, Smilka) *see* **Golden years of Moscow mathematics, 94j:01001**

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Addresses:
  Works of Fields medalists and Rolf Nevanlinna Prize winner Addresses on the works of Fields medalists and Rolf Nevanlinna Prize winner. **94d:01001**
Analyse diophantienne et géométrie algébrique ★ Analyse diophantienne et géométrie algébrique. (French) [Diophantine analysis and algebraic geometry] **94e:01001**
Anniversary:
  Birth of Lobachevskiĭ, N. I. ★ Памяти Лобачевского посвящается. Вып. I. (Russian) [Dedicated to the memory of Lobachevskiĭ. No. I] **94c:01001**
Congress:
  Mathematicians Addresses on the works of Fields medalists and Rolf Nevanlinna Prize winner. **94d:01001**
Dedicated to the memory of Lobachevskiĭ ★ Памяти Лобачевского посвящается. Вып. I. (Russian) [Dedicated to the memory of Lobachevskiĭ. No. I] **94c:01001**
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  Busard, Hubertus Lambertus Ludovicus ★ Vestigia mathematica. **94h:01001**
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Vestigia mathematica ★ Vestigia mathematica. **94h:01001**
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(Drucker, Thomas) *see* **Perspectives on the history of mathematical logic, 94b:03007**
(Ekspong, Gösta) *see* **Lectures: Klein, Oskar, 94i:81001**
(Fauvel, John) *see* **Möbius and his band, 94m:01023**
(Flood, Raymond) *see* **Möbius and his band, 94m:01023**
(Freudenthal, Hans) *see* **Legacy of Hans Freudenthal, 94m:00036**
(Klein, O.) *see* **Lectures: Klein, Oskar, 94i:81001**
(Möbius, August Ferdinand) *see* **Möbius and his band, 94m:01023**
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(Streefland, Leen) *see* **Legacy of Hans Freudenthal, 94m:00036**
(Weinberg, S.) *see* **Lectures: Klein, Oskar, 94i:81001**
(Wilson, Robin James) *see* **Möbius and his band, 94m:01023**
(Yang, Chen Ning) *see* **Lectures: Klein, Oskar, 94i:81001**

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  Möbius, August Ferdinand ★ Möbius and his band. **94m:01023**
Lectures:
  Klein, Oskar ★ The Oskar Klein memorial lectures. Vol. 1. **94i:81001**
Legacy of Hans Freudenthal ★ The legacy of Hans Freudenthal. **94m:00036**
Möbius and his band ★ Möbius and his band. **94m:01023**
Perspectives on the history of mathematical logic ★ Perspectives on the history of mathematical logic. **94b:03007**

01Axx History of mathematics and mathematicians

01A05 General histories, source books

Arnold, Hans-Joachim Zur Genese des Mathematisierens in geeigneten Handlungsfeldern. [On the genesis of mathematizing in suitable fields of action]
(Aspect, Alain) *see* **Ruhla, Charles, 94h:01002**
(Barton, Gabriel) *see* **Ruhla, Charles, 94h:01002**
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01A99 Miscellaneous topics

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Fang, Joon Idola fori et theatri. (English)
Grattan-Guinness, Ivor Some numerological features of Beethoven's output. (English summary)
Grötschel, Martin (*with* Lügger, Joachim; Sperber, Wolfram) Wissenschaftliches Publizieren und elektronische Fachinformation im Umbruch: ein Situationsbericht aus der Sicht der Mathematik. (German summary) [Scientific publishing and electronic information at a turning point: a report on the situation from the point of view of mathematics] (*see* **94i:00013**)
Lügger, Joachim *see* **Grötschel, Martin; et al., (94i:00013)**
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(Artin, Tom) *see* **Hansen, Vagn Lundsgaard, 94b:00002**
Blaser, Harry ★ Regelmässige Kreisteilungen und Kreisketten. (German) [Regular cyclotomies and chains of circles] **94a:00005**
Breger, Herbert Tacit knowledge in mathematical theory. **94b:00014**
(Cox, Steven J.) *see* **Kirmser, Philip G., 94e:73039**
Dimand, Mary Ann *see* **Dimand, Robert W., (94h:01033)**
Dimand, Robert W. (*with* Dimand, Mary Ann) The early history of the theory of strategic games from Waldegrave to Borel. (*see* **94h:01033**)
Fink, A. M. *see* **Mitrinović, Dragoslav S.; et al., 94c:00004**
Ghins, Michel ★ A inércia e o espaço-tempo absoluto. (Portuguese) [Inertia and absolute space-time] **94m:00003**
Hansen, Vagn Lundsgaard ★ Geometry in nature. **94b:00002**
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03–XX Mathematical logic and foundations

03–01 Instructional exposition (textbooks, tutorial papers, etc.)

Andrilli, Stephen F. Gödel's undecidability theorem. (*see* **94h:05002**)
Barwise, K. Jon (*with* Etchemendy, John) ★ The language of first-order logic. (English summary) **94b:03001**
— (*with* Etchemendy, John) ★ The language of first-order logic. **94h:03001**
Cohen, Morris R. (*with* Nagel, Ernest) ★ An introduction to logic. **94h:03002**
(Corcoran, John) *see* **Cohen, Morris R., 94h:03002**
Cori, René (*with* Lascar, Daniel) ★ Logique mathématique. Cours et exercices. I. (French. French summary) [Mathematical logic. Course and exercises. I] **94g:03001**
— (*with* Lascar, Daniel) ★ Logique mathématique. Cours et exercices. II. (French. French summary) [Mathematical logic. Course and exercises. II] **94g:03002**
da Costa, Newton C. A. ★ Introdução aos fundamentos da matemática. (Portuguese. Portuguese summary) [Introduction to the foundations of mathematics]
Davis, Martin D. (*with* Sigal, Ron; Weyuker, Elaine J.) ★ Computability, complexity, and languages. (English summary) **94j:03001**
— *see also* **Matiyasevich, Yu. V., 94m:03002b**
Devlin, Keith J. ★ The joy of sets. (English summary) **94e:03001**
Ebbinghaus, Heinz-Dieter (*with* Flum, Jörg; Thomas, Wolfgang) ★ Einführung in die mathematische Logik. (German. German summary) [Introduction to mathematical logic] **94b:03002**
Engeler, Erwin ★ Foundations of mathematics. (English summary) **94i:03001**
Etchemendy, John *see* **Barwise, K. Jon, 94b:03001** *and* **94h:03001**
Felscher, Walter ★ Berechenbarkeit. (German. German summary) [Computability] **94m:03001**
Flum, Jörg *see* **Ebbinghaus, Heinz-Dieter; et al., 94b:03002**
Forbes, Graeme ★ Modern logic. **94k:03001**
Gries, David (*with* Schneider, Fred B.) ★ A logical approach to discrete math. (English summary) **94j:03002a**
— (*with* Schneider, Fred B.) ★ Instructor's manual: *A logical approach to discrete math.* **94j:03002b**
(Hilbert, David[1]) *see* **Matiyasevich, Yu. V., 94m:03002a**
Hodges, Wilfrid ★ Model theory. (English summary) **94e:03002**
(Krivine, J.-L.) *see* **Cori, René, 94g:03001** *and* **94g:03002**
Lascar, Daniel *see* **Cori, René, 94g:03001** *and* **94g:03002**
Leblanc, Hugues (*with* Wisdom, William A.) ★ Deductive logic. **94k:03002**
Matiyasevich, Yu. V. ★ Десятая проблема Гильберта. (Russian. Russian summary) [Hilbert's tenth problem] **94m:03002a**
—★ Hilbert's tenth problem. (English summary) **94m:03002b**
Mo, Shao Kui ★ Shuxue jichu. (Chinese. Chinese summary) [Foundations of mathematics] **94b:03003**
Nagel, Ernest *see* **Cohen, Morris R., 94h:03002**
Schneider, Fred B. *see* **Gries, David, 94j:03002a** *and* **94j:03002b**
Sigal, Ron *see* **Davis, Martin D.; et al., 94j:03001**
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Anshel, Iris Lee (*with* Anshel, Michael) From the Post-Markov theorem through decision problems to public-key cryptography.
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Bolc, Leonard (*with* Borowik, Piotr) ★ Many-valued logics. Vol. 1. **94h:03045**
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Xu, Jie Pan ★ Lisan shuxue daolun. (Chinese. Chinese summary) [An introduction to discrete mathematics] **94c:00005**

03–02 Research exposition (monographs, survey articles)

Feferman, Solomon Working foundations—'91. **94h:03004**
Hájek, Petr (*with* Pudlák, Pavel) ★ Metamathematics of first-order arithmetic. **94d:03001**
Pudlák, Pavel *see* **Hájek, Petr, 94d:03001**
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Anderson, Alan Ross (*with* Belnap, Nuel D., Jr.; Dunn, J. Michael) ★ Entailment. The logic of relevance and necessity. Vol. II. **94b:03042**
Arslanov, M. M. ★ Локальная теория степеней неразрешимости и Δ^0_2-множества. (Russian. Russian summary) [Local theory of degrees of unsolvability and Δ^0_2-sets] **94c:03056**
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Bürckert, H.-J. ★ A resolution principle for a logic with restricted quantifiers. **94e:03007**
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Russell, Bertrand A. W. *see* **Rodríguez Consuegra, Francisco A., 94b:01028**
Biography:
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Lukasiewicz, Jan *see* **Woleński, Jan, 94d:01093**
Essays:
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McCune, William W. Single axioms for groups and abelian groups with various operations. (English summary) **94g:03025**
— Single axioms for the left group and right group calculi. (English summary) **94a:03012**

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Heck, Richard G., Jr. A note on the logic of (higher-order) vagueness. **94m:03016**
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Słomiński, Józef On the satisfiabilities and varieties for abstract algebras induced by the cones and functor dynamics. (English summary) **94m:08007**
Starchenko, S. S. *see* **Hart, Bradd; et al.**, **94e:03036**
Stuber, Jürgen *see* **Ganzinger, Harald**, (**94f:68012**)
Suzuki, Nobu-Yuki *see* **Shimura, Tatsuya**
Świerczkowski, Stanisław *see* **McKenzie, Ralph**, **94f:08016**
Thatte, Satish R. Finite acyclic theories are unitary. (English summary) **94h:03028**
Tulipani, Sauro Decidability of the existential theory of infinite terms with subterm relation. (English summary) **94k:03012**
Valeriote, Matthew A. *see* **Hart, Bradd; et al.**, **94e:03036**
Wechler, Wolfgang ★ Universal algebra for computer scientists. **94a:08001**
Wolfram, D. A. ★ The clausal theory of types. (English summary) **94j:68003**
Żembery, Ivan On a variety of infinite algebras. **94b:08017**

03C07 Basic properties of first-order languages and structures

Flum, Jörg On bounded theories. **94f:03041**
Macpherson, Dugald (*with* Pouzet, Maurice; Woodrow, R. E.) Countable structures of given age. (English summary) **94b:03061**
Pouzet, Maurice *see* **Macpherson, Dugald; et al.**, **94b:03061**
Woodrow, R. E. *see* **Macpherson, Dugald; et al.**, **94b:03061**

Items with secondary classifications in 03C07

Abiteboul, Serge (*with* Vianu, Victor) Computing on structures. (*see* **94h:68006**)
Dawson, John W., Jr. The compactness of first-order logic: from Gödel to Lindström. (English summary) **94d:03002**
Fermüller, Christian G. (*with* Leitsch, Alexander) Model building by resolution. (English summary) **94i:03014**
Gavrilenko, Yu. V. Congruences on terms and properties of dependence relations between variables. (Russian) **94b:03058**
Leitsch, Alexander *see* **Fermüller, Christian G.**, **94i:03014**
Lynch, James F. Convergence laws for random words. (English summary) **94d:03079**
Milici, C. (*with* Rachin, N.; Neamţu, N. N.) Théorie formelle de droite. I. (Romanian summary) [Formal theory of the line. I] **94c:03012a**
— (*with* Rachin, N.) Théorie formelle de droite. II. (Romanian summary) [Formal theory of the line. II] **94c:03012b**
Neamţu, N. N. *see* **Milici, C.; et al.**, **94c:03012a**
Peretyat'kin, M. G. Semantic universality of theories over a superlist. (Russian. Russian summary) **94h:03065**
Rachin, N. *see* **Milici, C.; et al.**, **94c:03012a** *and* **94c:03012b**
Vianu, Victor *see* **Abiteboul, Serge**, (**94h:68006**)

03C10 Quantifier elimination and related topics

Kuzichev, A. A. Elimination of quantifiers over vectors in some theories of vector spaces. (English summary) **94j:03073**
Loos, Rüdiger (*with* Weispfenning, Volker) Applying linear quantifier elimination. (English summary) **94f:03042**
Luczak, Tomasz First order properties of random posets. **94d:03061**
Weispfenning, Volker *see* **Loos, Rüdiger**, **94f:03042**

Items with secondary classifications in 03C10

Canny, John F. Improved algorithms for sign determination and existential quantifier elimination. (English summary) **94h:03021**
— Computing roadmaps of general semi-algebraic sets. (English summary) **94i:68108**
Cherlin, Gregory L. (*with* Saracino, Dan; Wood, Carol) On homogeneous nilpotent groups and rings. **94a:03059**
Cucker, Felipe On the complexity of quantifier elimination: the structural approach. (English summary) **94f:03049**
Heintz, Joos (*with* Roy, Marie-Françoise; Solernó, Pablo) On the theoretical and practical complexity of the existential theory of reals. (English summary) **94h:03076**
Krynicki, Michał (*with* Mostowski, Marcin) Decidability problems in languages with Henkin quantifiers. (English summary) **94e:03040**
Li, Hui Ling *see* **Li, Lian; et al.**, **94f:03046**
Li, Lian (*with* Li, Hui Ling; Liu, Yi Xun) On the satisfiability of linear systems of equations for quantifiers. (English summary) **94f:03046**
Lipshitz, L. Rigid subanalytic sets. **94d:32047**
Liska, Richard (*with* Steinberg, Stanly) Applying quantifier elimination to stability analysis of difference schemes. (English summary) **94d:65050**
Liu, Yi Xun *see* **Li, Lian; et al.**, **94f:03046**
Loveys, James (*with* Peterzil, Ya'acov) Linear o-minimal structures. (English summary) **94i:03075**
Manocha, Dinesh Efficient algorithms for multipolynomial resultant. (English summary) **94e:68090**
Mildenberger, Heike A rigid Boolean algebra that admits the elimination of Q_1^2. (English summary) **94h:03071**
Mostowski, Marcin *see* **Krynicki, Michał**, **94e:03040**
Palyutin, E. A. Elimination of quantifiers in Horn theories with a small number of models. (Russian. Russian summary) **94a:03057**
Peterzil, Ya'acov *see* **Loveys, James**, **94i:03075**
Roy, Marie-Françoise *see* **Heintz, Joos; et al.**, **94h:03076**
Saracino, Dan *see* **Cherlin, Gregory L.; et al.**, **94a:03059**
Solernó, Pablo Effective Lojasiewicz inequalities in semialgebraic geometry. (English summary) **94i:14059**
— *see also* **Heintz, Joos; et al.**, **94h:03076**
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03C13 Finite structures

Fagin, Ronald Finite-model theory—a personal perspective. (English summary) **94m:03052**
Foy, John (*with* Woods, Alan R.) Probabilities of sentences about two linear orderings. **94f:03043**
Gurevich, Yuri On finite model theory (extended abstract). (*see* **94b:03005**)
Kolaitis, Phokion G. (*with* Vardi, Moshe Y.) 0-1 laws for fragments of second-order logic: an overview. (English summary) **94h:03054**
Niwiński, Damian (*with* Stolboushkin, A. P.) $y = 2x$ vs. $y = 3x$. (English summary) **94e:03033**
Spencer, Joel H. Zero-one laws with variable probability. **94h:03055**
Stolboushkin, A. P. *see* **Niwiński, Damian**, **94e:03033**
Tyszkiewicz, Jerzy Infinitary queries and their asymptotic probabilities. I. Properties definable in transitive closure logic. (English summary) **94c:03043**
— On asymptotic probabilities of monadic second order properties. (English summary) **94i:03074**
— On asymptotic probabilities in logics that capture DSPACE($\log n$) in presence of ordering. (English summary) **94i:03073**
— Infinitary queries and their asymptotic probabilities. II. Properties definable in least fixed point logic. (English summary) **94g:03067**
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Cai, Jin-Yi (*with* Fürer, Martin; Immerman, Neil) An optimal lower bound on the number of variables for graph identification. (English summary) **94i:03009**
Dahlhaus, Elias How to implement first order formulas in local memory machine models. (English summary) (*see* **94c:68001**)
Dolan, Peter (*with* Lynch, James F.) The logic of ordered random structures. (English summary) **94e:05225**
Fayolle, Guy (*with* Grumbach, Stéphane; Tollu, Christophe) Asymptotic probabilities of languages with generalized quantifiers. (English summary) **94e:03038**
Fermüller, Christian G. (*with* Leitsch, Alexander) Model building by resolution. (English summary) **94i:03014**
Fürer, Martin *see* **Cai, Jin-Yi; et al.**, **94i:03009**
Goldfarb, Warren Random models and solvable Skolem classes. **94g:03022**
Grumbach, Stéphane (*with* Tollu, Christophe) Query languages with counters. (English summary) **94i:68065**
— *see also* **Fayolle, Guy; et al.**, **94e:03038**
Hungar, Hardi The complexity of verifying functional programs. (English summary) **94j:68186**
Immerman, Neil *see* **Cai, Jin-Yi; et al.**, **94i:03009**
Lautemann, Clemens Logical definability of NP-optimisation problems with monadic auxiliary predicates. (English summary) **94i:03086**
Leitsch, Alexander *see* **Fermüller, Christian G.**, **94i:03014**
Luczak, Tomasz First order properties of random posets. **94d:03061**
Lynch, James F. The quantifier structure of sentences that characterize nondeterministic time complexity. (English summary) **94g:03080**
— *see also* **Dolan, Peter**, **94e:05225**
Sazonov, V. Yu. Hereditarily finite sets, data bases and polynomial-time computability. (English summary) **94m:68035**
Spencer, Joel H. Sparse random graphs: a continuum of complete theories. **94d:03076**
Stolboushkin, A. P. On the computing power of programs with sets. (English summary) **94b:68078**
Tollu, Christophe *see* **Fayolle, Guy; et al.**, **94e:03038** *and* **Grumbach, Stéphane**, **94i:68065**

03C15 Denumerable structures

Items with secondary classifications in 03C15

Bőrőczky, K. (*with* Sauer, Norbert W.; Zhu, Xuding) Inexhaustible homogeneous structures. (English summary) **94h:03060**
De Lucia, Paolo (*with* Morales, Pedro) Noncommutative decomposition theorems in Riesz spaces. (English summary) **94b:28004**
Macpherson, Dugald (*with* Pouzet, Maurice; Woodrow, R. E.) Countable structures of given age. (English summary) **94b:03061**

Morales, Pedro *see* **De Lucia, Paolo, 94b:28004**
Newelski, Ludomir Scott analysis of pseudotypes. (English summary) **94m:03055**
Pouzet, Maurice *see* **Macpherson, Dugald; et al., 94b:03061**
Sami, Ramez L. Polish group actions and the Vaught conjecture. **94c:03068**
Sauer, Norbert W. *see* **Bőröczky, K.; et al., 94h:03060**
Shelah, Saharon Vive la différence. I. Nonisomorphism of ultrapowers of countable models. (English summary) **94g:03068**
Woodrow, R. E. *see* **Macpherson, Dugald; et al., 94b:03061**
Zhu, Xuding *see* **Bőröczky, K.; et al., 94h:03060**

03C20 Ultraproducts and related constructions

Ion, Ion D. (*with* Niţă, Constantin) Ultraproduits gradués. Applications. (French summary) [Graded ultraproducts. Applications] **94d:03062**
Mijajlović, Žarko Definable ultrapowers and the omitting types theorem. (English summary) **94j:03074**
Niţă, Constantin *see* **Ion, Ion D., 94d:03062**
Shelah, Saharon Vive la différence. I. Nonisomorphism of ultrapowers of countable models. (English summary) **94g:03068**

Items with secondary classifications in 03C20

Cummings, James Strong ultrapowers and long core models. **94d:03107**
Gitik, Moti (*with* Shelah, Saharon) More on simple forcing notions and forcings with ideals. (English summary) **94c:03070**
Jin, Renling (*with* Keisler, H. Jerome) Game sentences and ultrapowers. (English summary) **94i:03079**
Keisler, H. Jerome *see* **Jin, Renling, 94i:03079**
Khaliullin, S. G. *see* **Mushtari, D. Kh., 94i:28002**
Makkai, Michael Duality and definability in first order logic. (English summary) **94b:03104**
Mushtari, D. Kh. (*with* Khaliullin, S. G.) Linear spaces with probability measures, ultraproducts and contiguity. (Russian) **94i:28002**
Omarov, A. I. Filtering formulas. (Russian. Russian summary) **94i:03080**
Shelah, Saharon *see* **Gitik, Moti, 94c:03070**
Veschambre, Philippe Cardinalité des ultraproduits. [Cardinality of ultraproducts] (*see* **94h:00017**)

03C25 Model-theoretic forcing

Lablanquie, Jean-Claude Théories pré-inductives et pré-modèle-complètes: une approche naturelle du forcing infini. [Pre-inductive and pre-model-complete theories: a natural approach to infinite forcing] **94c:03044**

Items with secondary classifications in 03C25

Leinen, Felix Existentially closed locally cofinite groups. **94a:20050**

03C30 Other model constructions

Kirpotina, N. A. Elementary equivalence in the language of list superstructures. (Russian. Russian summary) **94c:03045**
Xu, Jia Fu *see* **Yi, Bo, 94a:03054**
Yi, Bo (*with* Xu, Jia Fu) Analogy model and analogy correspondence. (English summary) **94a:03054**

Items with secondary classifications in 03C30

Caferra, Ricardo A tableaux method for systematic simultaneous search for refutations and models using equational problems. (English summary) **94i:03025**
Hodkinson, Ian (*with* Shelah, Saharon) A construction of many uncountable rings using SFP domains and Aronszajn trees. (English summary) **94j:03079**
Shelah, Saharon *see* **Hodkinson, Ian, 94j:03079**
Xu, Jia Fu *see* **Yi, Bo, 94h:03113**
Yi, Bo (*with* Xu, Jia Fu) Analogy calculus. (English summary) **94h:03113**

03C35 Categoricity and completeness of theories

Items with secondary classifications in 03C35

Evans, David M. Some subdirect products of finite nilpotent groups. **94m:20051**
Hart, Bradd *see* **Shelah, Saharon; et al., 94j:03081**
Hodges, Wilfrid (*with* Hodkinson, Ian; Lascar, Daniel; Shelah, Saharon) The small index property for ω-stable ω-categorical structures and for the random graph. (English summary) **94d:03063**
Hodkinson, Ian *see* **Hodges, Wilfrid; et al., 94d:03063**
Hrushovski, Ehud A new strongly minimal set. (English summary) **94d:03064**
Laflamme, Claude *see* **Shelah, Saharon; et al., 94j:03081**
Lascar, Daniel *see* **Hodges, Wilfrid; et al., 94d:03063**
(Louvish, David) *see* **Zil'ber, B. I., 94h:03059**
Peretyat'kin, M. G. Semantically universal classes of models. (Russian. Russian summary) **94h:03061**
Shelah, Saharon (*with* Laflamme, Claude; Hart, Bradd) Models with second order properties. V. A general principle. (English summary) **94j:03081**
— *see also* **Hodges, Wilfrid; et al., 94d:03063**
Zil'ber, B. I. ★ Uncountably categorical theories. **94h:03059**

03C40 Interpolation, preservation, definability

Arnold, André (*with* Niwiński, Damian) Fixed point characterization of weak monadic logic definable sets of trees. (English summary) **94c:03046**
Hébert, Michel Representation and preservation of the metamathematical quotients of A. Robinson. **94g:03069**
Marker, David (*with* Peterzil, Ya'acov; Pillay, Anand) Additive reducts of real closed fields. **94a:03055**
Niwiński, Damian *see* **Arnold, André, 94c:03046**
Pazdyka, Paweł Definability of models by means of existential formulas without identity. **94j:03075**
Peterzil, Ya'acov *see* **Marker, David; et al., 94a:03055**
Pillay, Anand *see* **Marker, David; et al., 94a:03055**
Wilkie, A. J. On defining C^∞. **94m:03053**

Items with secondary classifications in 03C40

Chatzidakis, Zoé (*with* van den Dries, Lou; Macintyre, Angus) Definable sets over finite fields. **94c:03049**
van den Dries, Lou *see* **Chatzidakis, Zoé; et al., 94c:03049**
Hébert, Michel Sur les opérations partielles implicites et leur relation avec la surjectivité des épimorphismes. (English summary) [Implicit partial operations and their relation to surjectivity of epimorphisms] **94f:08007**
Ježek, Jaroslav (*with* McKenzie, Ralph) Definability in the lattice of equational theories of semigroups. (English summary) **94a:03052**
Korec, Ivan Definability of arithmetic operations in Pascal triangle modulo an integer divisible by two primes. (English summary) **94e:11138**
Kramer, Richard The undefinability of intersection from perpendicularity in the three-dimensional Euclidean geometry of lines. (English summary) **94a:51029**
Macintyre, Angus *see* **Chatzidakis, Zoé; et al., 94c:03049**
Makkai, Michael Duality and definability in first order logic. (English summary) **94b:03104**
McKenzie, Ralph *see* **Ježek, Jaroslav, 94a:03052**
Miller, Chris Exponentiation is hard to avoid. (English summary) **94k:03042**
Niwiński, Damian (*with* Stolboushkin, A. P.) $y = 2x$ vs. $y = 3x$. (English summary) **94e:03033**
Peterzil, Ya'acov A structure theorem for semibounded sets in the reals. **94a:03061**
Shlapentokh, Alexandra Diophantine relations between rings of S-integers of fields of algebraic functions in one variable over constant fields of positive characteristic. (English summary) **94d:03073**
Stolboushkin, A. P. *see* **Niwiński, Damian, 94e:03033**
Tsuboi, Akito Algebraic types and automorphism groups. **94d:03066**
Xu, Jia Fu *see* **Yi, Bo, 94h:03113**
Yi, Bo (*with* Xu, Jia Fu) Analogy calculus. (English summary) **94h:03113**

03C45 Stability and related concepts

Baldwin, John T. (*with* Laskowski, M. C.; Shelah, Saharon) Forcing isomorphism. **94m:03054**
Davis, Mark Kelly (*with* Nesin, Ali) On solvable centerless groups of Morley rank 3. **94e:03034**
Evans, David M. (*with* Hrushovski, Ehud) On the automorphism groups of finite covers. (English summary) **94e:03035**
Hart, Bradd (*with* Pillay, Anand; Starchenko, S. S.) Triviality, NDOP and stable varieties. (English summary) **94h:03056**
— (*with* Starchenko, S. S.; Valeriote, Matthew A.) Vaught's conjecture for varieties. (English summary) **94e:03036**
Hodges, Wilfrid (*with* Hodkinson, Ian; Lascar, Daniel; Shelah, Saharon) The small index property for ω-stable ω-categorical structures and for the random graph. (English summary) **94d:03063**
— *see also* **Rabinovich, E. D., 94d:03065**
Hodkinson, Ian *see* **Hodges, Wilfrid; et al., 94d:03063**
Hrushovski, Ehud Unimodular minimal structures. (English summary) **94b:03062**
— A new strongly minimal set. (English summary) **94d:03064**
— *see also* **Evans, David M., 94e:03035**
Hyttinen, Tapani (*with* Shelah, Saharon; Tuuri, Heikki) Remarks on strong nonstructure theorems. (English summary) **94g:03070**
Ivanov, A. A. The structure of superflat graphs. (English summary) **94g:03071**
— Stable absolutely ubiquitous structures. **94g:03072**
Lascar, Daniel *see* **Hodges, Wilfrid; et al., 94d:03063**
Laskowski, M. C. *see* **Baldwin, John T.; et al., 94m:03054**
(Louvish, David) *see* **Zil'ber, B. I., 94h:03059**
Loveys, James On locally modular, weakly minimal theories. **94a:03056**
— (*with* Peterzil, Ya'acov) Linear o-minimal structures. (English summary) **94i:03075**
Meirembekov, K. A. (*with* Shegirov, K. M.) Stable geometric lattices. (Russian. English and Russian summaries) **94i:03076**
Mekler, Alan H. (*with* Oikkonen, Juha) Abelian p-groups with no invariants. (English summary) **94h:03057**
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Newelski, Ludomir Scott analysis of pseudotypes. (English summary) **94m:03055**
— On U-rank 2 types. **94k:03039**
Oikkonen, Juha *see* **Mekler, Alan H., 94h:03057**
Palyutin, E. A. Elimination of quantifiers in Horn theories with a small number of models. (Russian. Russian summary) **94a:03057**
Peterzil, Ya'acov Zil'ber's conjecture for some o-minimal structures over the reals. (English summary) **94m:03056**
— *see also* **Loveys, James, 94i:03075**
Pillay, Anand *see* **Hart, Bradd; et al., 94h:03056**
Rabinovich, E. D. ★ Definability of a field in sufficiently rich incidence systems. **94d:03065**
Shegirov, K. M. *see* **Meirembekov, K. A., 94i:03076**
Shelah, Saharon *see* **Hodges, Wilfrid; et al., 94d:03063; Hyttinen, Tapani; et al., 94g:03070** *and* **Baldwin, John T.; et al., 94m:03054**
Starchenko, S. S. *see* **Hart, Bradd; et al., 94e:03036** *and* **94h:03056**
Toffalori, Carlo The stability problem for 2-ary functions. (Italian summary) **94b:03063**
Tsuboi, Akito Algebraic types and automorphism groups. **94d:03066**
Tuuri, Heikki *see* **Hyttinen, Tapani; et al., 94g:03070**
Valeriote, Matthew A. *see* **Hart, Bradd; et al., 94e:03036**
Wagner, Frank O. Quasi-endomorphisms in small stable groups. (English summary) **94i:03077**
— Stable groups, mostly of finite exponent. (English summary) **94h:03058**

Zil'ber, B. I. ★ Uncountably categorical theories. **94h:03059**

Items with secondary classifications in 03C45

Baldwin, John T. An almost strongly minimal non-Desarguesian projective plane. **94f:51007**
Evans, David M. Some subdirect products of finite nilpotent groups. **94m:20051**
Greif, A. D. (*with* Laskowski, M. C.) An omitting types theorem for saturated structures. (English summary) **94d:03067**
Ikeda, Koichiro Minimal models of minimal theories. **94j:03076**
Kojman, Menachem (*with* Shelah, Saharon) Nonexistence of universal orders in many cardinals. (English summary) **94b:03064**
Kucera, T. G. The regular hierarchy in modules. **94m:16005**
Laskowski, M. C. *see* **Greif, A. D., 94d:03067**
Marcja, Annalisa (*with* Prest, Mike; Toffalori, Carlo) On the undecidability of some classes of abelian-by-finite groups. (English summary) **94g:03090**
— (*with* Prest, Mike; Toffalori, Carlo) The stability classification for abelian-by-finite groups and modules over a group ring. **94b:03065**
Peretyat'kin, M. G. Semantical significances of formulas in the classical predicate logic. **94f:03044**
Pillay, Anand (*with* Rothmaler, Philipp) Unidimensional modules: uniqueness of maximal nonmodular submodels. (English summary) **94d:03071**
Poizat, Bruno (*with* Wagner, Frank O.) Sous-groupes periodiques d'un groupe stable. (English and German summaries) [Periodic subgroups of a stable group] **94m:03059**
Prest, Mike *see* **Marcja, Annalisa; et al., 94b:03065** *and* **94g:03090**
Rothmaler, Philipp *see* **Pillay, Anand, 94d:03071**
Schmerl, James H. A weakly definable type which is not definable. (English summary) **94i:03110**
Shelah, Saharon *see* **Kojman, Menachem, 94b:03064**
Toffalori, Carlo *see* **Marcja, Annalisa; et al., 94b:03065** *and* **94g:03090**
Wagner, Frank O. *see* **Poizat, Bruno, 94m:03059**

03C50 Models with special properties (saturated, rigid, etc.)

Bőröczky, K. (*with* Sauer, Norbert W.; Zhu, Xuding) Inexhaustible homogeneous structures. (English summary) **94h:03060**
Greif, A. D. (*with* Laskowski, M. C.) An omitting types theorem for saturated structures. (English summary) **94d:03067**
Ikeda, Koichiro Minimal models of minimal theories. **94j:03076**
Lascar, Daniel (*with* Shelah, Saharon) Uncountable saturated structures have the small index property. (English summary) **94d:03068**
Laskowski, M. C. *see* **Greif, A. D., 94d:03067**
Peterzil, Ya'acov Reducts of some structures over the reals. (English summary) **94k:03040**
Sauer, Norbert W. *see* **Bőröczky, K.; et al., 94h:03060**
Shelah, Saharon *see* **Lascar, Daniel, 94d:03068**
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Items with secondary classifications in 03C50

Jin, Renling The isomorphism property versus the special model axiom. (English summary) **94c:03079**
Kojman, Menachem (*with* Shelah, Saharon) Nonexistence of universal orders in many cardinals. (English summary) **94b:03064**
Mijajlović, Žarko Definable ultrapowers and the omitting types theorem. (English summary) **94j:03074**
Miller, Chris Exponentiation is hard to avoid. (English summary) **94k:03042**
Peretyat'kin, M. G. Expressive power of finitely axiomatizable theories. I. Introduction, interpretations, and reduction to graphs. (English summary) **94g:03019**
Peterzil, Ya'acov Zil'ber's conjecture for some *o*-minimal structures over the reals. (English summary) **94m:03056**
Shelah, Saharon Universal graphs without instances of CH: revisited. **94e:03048**
— *see also* **Kojman, Menachem, 94b:03064**

03C52 Properties of classes of models

Peretyat'kin, M. G. Semantically universal classes of models. (Russian. Russian summary) **94h:03061**
Rosický, Jiří Models of Horn theories revisited. (English summary) **94m:03057**

Items with secondary classifications in 03C52

Gil'man, E. A. A sufficient indecomposability condition in lattices of universal classes. (Russian) (*see* **94j:00017**)
Lablanquie, Jean-Claude Théories pré-inductives et pré-modèle-complètes: une approche naturelle du forcing infini. [Pre-inductive and pre-model-complete theories: a natural approach to infinite forcing] **94c:03044**
Macpherson, Dugald (*with* Pouzet, Maurice; Woodrow, R. E.) Countable structures of given age. (English summary) **94b:03061**
Mekler, Alan H. (*with* Shelah, Saharon) Some compact logics—results in ZFC. **94b:03068**
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— (*with* Mosbah, Mohamed) Monadic second-order evaluations on tree-decomposable graphs. (English summary) **94a:68099**
Gehrke, Mai The order structure of Stone spaces and the T_D-separation axiom. **94c:54038**
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Mascari, Gianfranco (*with* Vincenzi, Antonio) Model-theoretic specifications and back-and-forth equivalences. (*see* **94e:68018**)
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Cury, F. Complétion et complétude selon H. Andréka et I. Németi. [Completion and completeness according to H. Andréka and I. Németi] **94f:18006**
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Stefaneas, Petros *see* **Diaconescu, Răzvan; et al., (94f:03004)**

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Droste, Manfred (*with* Göbel, Rüdiger) Universal domains and the amalgamation property. (English summary) **94k:68125**

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— (*with* Salomaa, Arto) On simplest possible solutions for Post correspondence problems. (English summary) **94k:03045**

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Lynch, James F. Convergence laws for random words. (English summary) **94d:03079**

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03E10 Ordinal and cardinal numbers [see also 04A10]

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Leeds ★ Proof theory. **94b:03008**
Proof theory ★ Proof theory. **94b:03008**
School:
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Adamowicz, Zofia A contribution to the end-extension problem and the Π_1 conservativeness problem. (English summary) **94h:03134**
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— (*with* Straßen, Tyko) The basic logic of proofs. (English summary) **94m:03031**
— (*with* Beklemishev, L. D.) On propositional quantifiers in provability logic. (English summary) **94m:03023**
Baaz, Matthias (*with* Pudlák, Pavel) Kreisel's conjecture for $L\exists_1$. **94g:03108**
Baker, S. (*with* Ireland, A.; Smaill, Alan) On the use of the constructive omega-rule within automated deduction. (English summary) **94h:03020**
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Smith, Stuart T. Prime numbers and factorization in IE_1 and weaker systems. (English summary) **94a:03062**
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— Interpretations of the alternative set theory. (English summary) **94k:03070**
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03F40 Gödel numberings in proof theory

Loinger, A. A remark on Gödel's incompleteness theorems. (English summary) **94i:03111**

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— (*with* Straßen, Tyko) The basic logic of proofs. (English summary) **94m:03031**
Beklemishev, L. D. Independent enumerations of theories and recursive progressions. (Russian. Russian summary) **94e:03013**
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Lilius, Johan High-level nets and linear logic. (English summary) **94i:03113**
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Arkhangel'skiĭ, D. A. (*with* Taĭtslin, M. A.) Modal linear logic. (English summary) **94j:03065**
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Chirimar, Jawahar (*with* Lipton, James) Provability in TBLL: a decision procedure. (English summary) (*see* **94c:68001**)
Constable, Robert L. Formal theories and software systems: fundamental connections between computer science and logic. (English summary) **94h:03053**
Cook, Stephen A. (*with* Urquhart, Alasdair) Functional interpretations of feasibly constructive arithmetic. (English summary) **94g:03107**
van Dalen, Dirk The continuum and first-order intuitionistic logic. **94a:03093**
Di Cosmo, Roberto (*with* Longo, Giuseppe[1]) Constructively equivalent propositions and isomorphisms of objects, or terms as natural transformations. (*see* **94c:03004**)
Dowek, Gilles A complete proof synthesis method for the cube of type systems. (English summary) **94i:03010**
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Herre, Heinrich (*with* Pearce, David) Disjunctive logic programming, constructivity and strong negation. (English summary) **94d:68027**
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03F55 Intuitionistic mathematics

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Hyland, J. Martin E. *see* **Benton, Nick; et al.,** **94g:03116**
Khakhanyan, V. Kh. Independence of the collection axiom from the principle DC in intuitionistic set theory. (Russian)
— An intuitionistic proof of the consistency of Church's thesis with set theory. (Russian)
Lyubetskiĭ, V. A. The transition from deducibility in classical set theory to deducibility in intuitionistic set theory for the language of rings. (Russian. Russian summary) **94d:03116**
de Paiva, Valeria *see* **Benton, Nick; et al.,** **94g:03116**
Troelstra, A. S. An intuitionistic look at the real numbers. (Dutch) (*see* **94f:00021**)
Veldman, Wim (*with* Bezem, Marc) Ramsey's theorem and the pigeonhole principle in intuitionistic mathematics. (English summary) **94c:03077**

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Bochernikov, V. Ya. On intuitionistic elementary arithmetic. (Russian) **94c:03074**
Buss, Samuel R. On model theory for intuitionistic bounded arithmetic with applications to independence results. (English summary) **94e:03059**
— Intuitionistic validity in T-normal Kripke structures. (English summary) **94m:03020**
Felty, Amy Encoding the calculus of constructions in a higher-order logic. (English summary) **94i:68179**
Hintikka, Jaakko Gödel's functional interpretation in a wider perspective. **94a:03092**
Hyland, J. Martin E. (*with* Ong, C.-H. Luke) Modified realizability toposes and strong normalization proofs (extended abstract). (English summary) (*see* **94b:68025**)
— (*with* de Paiva, Valeria) Full intuitionistic linear logic (extended abstract). (English summary)
Ishihara, Hajime Markov's principle, Church's thesis and Lindelöf's theorem. (English summary) **94i:03116**
Kurtz, Stuart A. (*with* Mitchell, John C.; O'Donnell, Michael J.) Connecting formal semantics to constructive intuitions. (English summary) (*see* **94e:68007**)
van Lambalgen, Michiel Independence, randomness and the axiom of choice. (English summary) **94a:03081**
Mitchell, John C. *see* **Kurtz, Stuart A.; et al.,** (**94e:68007**)
O'Donnell, Michael J. *see* **Kurtz, Stuart A.; et al.,** (**94e:68007**)
Ong, C.-H. Luke *see* **Hyland, J. Martin E.,** (**94b:68025**)
de Paiva, Valeria *see* **Hyland, J. Martin E.**
Ruitenburg, Wim The unintended interpretations of intuitionistic logic. (English summary) **94m:03003**
Tucker, J. V. (*with* Zucker, Jeffery) Provable computable selection functions on abstract structures. (English summary) **94m:03072**
Voronkov, A. A. On completeness of program synthesis systems. (English summary) **94g:03115**
Zucker, Jeffery *see* **Tucker, J. V.,** **94m:03072**

03F60 Constructive and recursive analysis [see also 26E40, 46S30, 47S30]

Hellman, Geoffrey Gleason's theorem is not constructively provable. **94b:03099**
— Constructive mathematics and quantum mechanics: unbounded operators and the spectral theorem. **94d:03117**
Hoover, H. James Computational models for feasible real analysis. (English summary) **94g:03117**
Ishihara, Hajime Markov's principle, Church's thesis and Lindelöf's theorem. (English summary) **94i:03116**

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(Bishop, Errett A.) *see* **Kushner, B. A.,** (**94j:01001**)
Di Gianantonio, Pietro Real number computability and domain theory. (English summary) **94k:68046**
Drago, Antonino (*with* Vitiello, Ornella) History of the introduction of constructive mathematics in theoretical physics: the case of thermodynamics. (Italian) **94d:01032**
Gao, Feng[3] (*with* Wasilkowski, Grzegorz W.) On detecting regularity of functions: a probabilistic analysis. (English summary) **94m:68081**
Jones, Claire Completing the rationals and metric spaces in LEGO. (English summary) (*see* **94f:03004**)
Kohlenbach, Ulrich Effective bounds from ineffective proofs in analysis: an application of functional interpretation and majorization. (English summary) **94a:03091**
Kushner, B. A. Markov and Bishop: an essay in memory of A. A. Markov (1903–1979) and E. Bishop (1928–1983). (*see* **94j:01001**)
Lisovik, L. P. Representation of linear functionals over partially continuous functions. (Russian. English and Ukrainian summaries) **94c:46157**
Mandelkern, Mark Open subspaces of locally compact metric spaces. (English summary) **94m:54068**
(Markov, Andrei Andreevich) *see* **Kushner, B. A.,** (**94j:01001**)
Vesley, Richard E. Boolos' nonconstructive proof of Gödel's theorem. **94m:03018**
Vitiello, Ornella *see* **Drago, Antonino,** **94d:01032**
Wasilkowski, Grzegorz W. *see* **Gao, Feng[3],** **94m:68081**

03F65 Other constructive mathematics [see also 26E40, 46S30, 47S30]

Coquand, Thierry Constructive topology and combinatorics. (English summary) (*see* **94e:68007**)
van Dalen, Dirk The continuum and first-order intuitionistic logic. **94a:03093**
Hallnäs, Lars On systems of definitions, induction and recursion. (English summary) **94c:03078**
Nerode, Anil (*with* Remmel, Jeffrey B.) Complexity-theoretic algebra: vector space bases. **94i:03117**

Remmel, Jeffrey B. *see* **Nerode, Anil, 94i:03117**
Romano, Daniel A. *a*-coideals of sets. (English summary) **94i:03118**
Weihrauch, Klaus A simple and powerful approach for studying constructivity, computability, and complexity. (English summary) **94j:03123**

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Knobel, Andreas Constructive set-theoretic models of typed combinatory logic. (English summary) **94f:03020**
Mandelkern, Mark Open subspaces of locally compact metric spaces. (English summary) **94m:54068**
Richman, Fred (*with* Stolzenberg, Gabriel) Well quasi-ordered sets. **94k:03060**
Smart, D. R. Almost fixed points. (English summary) **94f:54085**
Solernó, Pablo Effective Lojasiewicz inequalities in semialgebraic geometry. (English summary) **94i:14059**
Stolzenberg, Gabriel *see* **Richman, Fred, 94k:03060**
Troelstra, A. S. Comparing the theory of representations and constructive mathematics. (English summary) **94d:03095**

03F99 None of the above, but in this section

Items with secondary classifications in 03F99

Nelson, Edward Taking formalism seriously. **94g:03012**

03Gxx Algebraic logic

03G05 Boolean algebras [see also 06Exx]

Dolotova, O. A. Minimal checking tests for functions in Post classes. (Russian. Russian summary) **94i:03119**
Hammer, Peter L. (*with* Kogan, A. Yu.) Horn functions and their DNFs. (English summary) **94a:03094**
Kogan, A. Yu. *see* **Hammer, Peter L., 94a:03094**
Koppelberg, Sabine A construction of Boolean algebras from first-order structures. (English summary) **94m:03098**
Plebanek, Grzegorz Remarks on measurable Boolean algebras and sequential cardinals. (English summary) **94h:03124**

Items with secondary classifications in 03G05

Arutyunyan, L. A. On the lattice of closed classes of nonhomogeneous functions with a trace of type *C*. (Russian. Russian summary) **94c:06018**
Beynon, W. Meurig Boolean function complexity: a lattice-theoretic perspective. (English summary) **94f:68083**
Chen, Zhi Xiang *see* **Liu, Yong Cai; et al., 94m:06015**
D'Agostino, Giovanna Reflexive points in the topological study of diagonalizable algebras. (Italian summary) **94h:03129**
Dičiūnas, V. On the positive and the inversion complexity of Boolean functions. (English and French summaries) **94i:68129**
Dow, Alan (*with* Nyikos, Peter J.) Representing free Boolean algebras. (English summary) **94c:03063**
Downey, Rod Every recursive Boolean algebra is isomorphic to one with incomplete atoms. (English summary) **94c:03059**
Fuchino, Sakaé On potential embedding and versions of Martin's axiom. (English summary) **94h:03091**
Green, Judy The problem of elimination in the algebra of logic. **94g:03005**
Haddad, Lucien (*with* Rosenberg, Ivo G.) Generating sequences for *k*-valued logic. **94c:03022**
Hellerstein, Lisa Functions that are read-once on a subset of their inputs. (English summary) **94h:05090**
Ismailov, Sh. M. Realization of automatic functions by plane logic networks. (Russian. Russian summary) **94h:68091**
Johnson, Frederic A. Counting functions. (English summary) **94a:06029**
Just, Winfried (*with* Weese, Martin) On independent subsets of Boolean algebras. (English summary) **94i:06014**
Karchmer, M. (*with* Linial, Nathan; Newman, Ilan; Saks, Michael; Wigderson, Avi) Combinatorial characterization of read-once formulae. (English summary) **94d:06034**
Kasim-Zade, O. M. On a measure of the activeness of circuits made of functional elements. (Russian) **94c:94019**
Linial, Nathan *see* **Karchmer, M.; et al., 94d:06034**
Liu, Yong Cai (*with* Chen, Zhi Xiang; Wang, Xin) A remark on monotone decomposition. (Chinese. English and Chinese summaries) **94m:06015**
Markov, Aleksandr Aleksandrovich Calculation of Boolean functions by systems of formulas of bounded complexity. (Russian. Russian summary) **94e:06008**
Mikhailyuk, M. V. (*with* Sedrakyan, N. G.) Minimization of disjunctive normal forms in symbolic form. (Russian. Russian summary) **94f:03011**
Mildenberger, Heike A rigid Boolean algebra that admits the elimination of Q_1^2. (English summary) **94h:03071**
Mitra, Arun K. (*with* Ortiz, Justin) A massive parallel computation in Boolean logic. (English summary)
Morawiec, A. (*with* Węglorz, B.) Prenormality of ideals and completeness of their quotient algebras. **94d:04003**
Newman, Ilan *see* **Karchmer, M.; et al., 94d:06034**
Nyikos, Peter J. *see* **Dow, Alan, 94c:03063**
Odintsov, S. P. Hereditarily recursively enumerable subalgebras of a recursive Boolean algebra. (Russian. Russian summary) **94d:03092**
Ortiz, Justin *see* **Mitra, Arun K.**
Pal'chunov, D. E. (*with* Touraille, Alain) On some connections between Boolean algebras and Heyting algebras. (English summary) **94g:06018**
Peretyat'kin, M. G. Semantically universal classes of models. (Russian. Russian summary) **94h:03061**
Peryazev, N. A. *see* **Vinokurov, S. F., 94a:06030** *and* **94d:06036**
Pinus, A. G. Löwenheim numbers for skeletons of varieties of Boolean algebras. (Russian. Russian summary) **94a:03053**
— ★ Boolean constructions in universal algebras. (English summary) **94g:08001**
Quadri, Murtaza A. Boolean algebras and their generalizations. (*see* **94d:00018**)
Rosenberg, Ivo G. *see* **Haddad, Lucien, 94e:03022**
Saks, Michael *see* **Karchmer, M.; et al., 94d:06034**
Schumacher, Klaus Boolean algebras in AST. (English summary) **94j:03112**
Sedrakyan, N. G. *see* **Mikhailyuk, M. V., 94f:03011**
Simon, Petr Sacks forcing collapses $\mathfrak{c}$ to $\mathfrak{b}$. (English summary) **94m:03084**
Stetsenko, V. A. Preworst bases in P_2. (Russian) **94c:06019**
Touraille, Alain *see* **Pal'chunov, D. E., 94g:06018**
Veličković, Boban OCA and automorphisms of $\mathcal{P}(\omega)$/fin. (English summary) **94a:03080**
Vinokurov, S. F. (*with* Peryazev, N. A.) Polynomial expansions of Boolean functions in nondegenerate functions. (Russian. Russian summary) **94a:06030**
— (*with* Peryazev, N. A.) Polynomial decomposition of Boolean functions. (Russian) **94d:06036**
Wang, Xin *see* **Liu, Yong Cai; et al., 94m:06015**
Weese, Martin *see* **Just, Winfried, 94i:06014**
Węglorz, B. *see* **Morawiec, A., 94d:04003**
Wigderson, Avi *see* **Karchmer, M.; et al., 94d:06034**

03G10 Lattices and related structures [see also 06Bxx]

Font i Llovet, Josep Ma. (*with* Verdú, Ventura) The lattice of distributive closure operators over an algebra. (English summary) **94e:03064**
Verdú, Ventura *see* **Font i Llovet, Josep Ma., 94e:03064**

Items with secondary classifications in 03G10

Allwein, Gerard (*with* Dunn, J. Michael) Kripke models for linear logic. (English summary) **94g:03055**
Dunn, J. Michael *see* **Allwein, Gerard, 94g:03055**

03G12 Quantum logic [see also 81P10]

Bacciagaluppi, Guido Critique of Putnam's quantum logic. (English summary) **94j:03124**
Cattaneo, Gianpiero (*with* Dalla Chiara, Maria Luisa; Giuntini, Roberto) Fuzzy intuitionistic quantum logics. (English summary) **94j:03125**
Dalla Chiara, Maria Luisa *see* **Cattaneo, Gianpiero; et al., 94j:03125**
Garola, Claudio Classical foundations of quantum logics. (Italian) **94j:03126**
Giuntini, Roberto *see* **Cattaneo, Gianpiero; et al., 94j:03125**
Lê bá Long Compatibility and representation of observables on type I, II, III fuzzy quantum posets. (English summary) **94m:03099**
Mesiar, Radko Pseudoadditive states on a logic. (English summary) **94j:03127**
Nishimura, Hirokazu Proof theory for minimal quantum logic. I. (English summary) **94m:03100**
Pavičić, M. Probabilistic forcing in quantum logics. (English summary) **94j:03128**

Items with secondary classifications in 03G12

Beltrametti, Enrico G. (*with* Mączyński, Maciej J.) On the characterization of probabilities: a generalization of Bell's inequalities. (English summary) **94g:81009**
Brown, Carolyn (*with* Gurr, Doug) A representation theorem for quantales. (English summary) **94a:18006**
Cattaneo, Gianpiero (*with* Nisticò, Giuseppe) Critical observations about Aerts' theory of two separated entities. (Italian) **94e:81015**
— (*with* Nisticò, Giuseppe) A model of Piron's preparation-question structures in Ludwig's selection structures. (English summary) **94c:81010**
— Fuzzy quantum logic. II. The logics of unsharp quantum mechanics. (English summary) **94j:81028**
— *see also* **Foundations of quantum mechanics, 94b:81004**
Dalla Chiara, Maria Luisa Empirical logics. (English summary) **94j:81013**
Gurr, Doug *see* **Brown, Carolyn, 94a:18006**
Hoekzema, Dick J. ★ The quantum labyrinth. (English summary) **94e:81018**
Keller, Karsten Extreme point representation of orthoposets and commutativity. (English summary) **94d:06024**
Kolesárová, Anna (*with* Riečan, Beloslav) On *l*-group valued observables. (English summary) **94d:81016**
Konôpka, Pavol (*with* Pulmannová, Sylvia) Commutators in orthomodular posets. **94i:06009**
Länger, Helmut Construction of observables and existence of joins and meets in the poset of observables. **94c:06015**
Mączyński, Maciej J. *see* **Beltrametti, Enrico G., 94g:81009**
Malhas, Othman Qasim Fuzziness in abacus logic. (English summary) **94j:03056**
Milne, Peter The foundations of probability and quantum mechanics. (English summary) **94e:81019**
Moore, D. J. Quantum logic requires weak modularity. (English summary) **94g:81010**
Müller, Vladimír Jauch-Piron states on concrete quantum logics. (English summary) **94g:81011**
Nánásiová, Oľga States and homomorphisms on the Pták sum. (English summary) **94j:81021**
Navara, Mirko (*with* Pták, Pavel) On the Radon-Nikodým property in quantum logics. (English summary) **94g:81012**
— An orthomodular lattice admitting no group-valued measure. (English summary) **94k:06007**
Nisticò, Giuseppe *see* **Cattaneo, Gianpiero, 94c:81010** *and* **94e:81015**
Ovchinnikov, P. G. Measures on Gudder and Marchand logics. (Russian) **94e:81020**
— Countable Jauch-Piron logics. (English summary) **94h:81012**
(Pasquinelli, Alberto) *see* **Tarozzi, Gino, 94k:81014**

Pavičić, M. Nonordered quantum logic and its YES-NO representation. (English summary) **94g:81013**
Piron, C. Jauch-Piron orthomodular posets and propositional systems: a comparison. (English summary) **94k:81019**
Pták, Pavel (*with* Pulmannová, Sylvia) ★ Kvantové logiky. (Slovak. English and Russian summaries) [Quantum logics] **94d:81018a**
— (*with* Pulmannová, Sylvia) ★ Orthomodular structures as quantum logics. **94d:81018b**
— Jauch-Piron property (everywhere!) in the logicoalgebraic foundation of quantum theories. (English summary) **94j:81024**
— *see also* **Navara, Mirko, 94g:81012**
Pulmannová, Sylvia Regularity of spectral measures. **94g:06013**
— *see also* **Pták, Pavel, 94d:81018a; 94d:81018b** *and* **Konôpka, Pavol, 94i:06009**
Pykacz, Jarosław Fuzzy quantum logic. I. (English summary) **94j:81027**
Redhead, Michael ★ Incompleteness, nonlocality, and realism. **94c:81003**
Riečan, Beloslav *see* **Kolesárová, Anna, 94d:81016**
Riečanová, Zdenka Measures and topologies on atomic quantum logics. **94g:06015**
(Rossi, Arcangelo) *see* **Foundations of quantum mechanics, 94b:81004**
Rüttimann, Gottfried T. Convexity and finite quantum logics. (English summary) **94m:81006**
Schumacher, Benjamin W. *see* **Westmoreland, Michael D., 94e:81023**
Sultanbekov, F. F. Charges and automorphisms of a class of finite set logics. (Russian) **94f:81010**
Tarozzi, Gino ★ Filosofia della microfisica. Vol. I. (Italian) [Philosophy of microphysics. Vol. I] **94k:81014**
Tkadlec, Josef Boolean orthoposets and two-valued states on them. (English summary) **94d:06026**
Westmoreland, Michael D. (*with* Schumacher, Benjamin W.) Non-Boolean derived logics for classical systems. (English summary) **94e:81023**

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Camerino ★ I fondamenti della meccanica quantistica. (Italian) [The foundations of quantum mechanics] **94b:81004**
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Foundations of Quantum Mechanics ★ I fondamenti della meccanica quantistica. (Italian) [The foundations of quantum mechanics] **94b:81004**
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03G15 Cylindric and polyadic algebras; relation algebras

Bredikhin, D. A. Reducing of relation algebras to semigroups. (Estonian summary) **94b:03100**
Cīrulis, Jānis An algebraization of first order logic with terms. **94g:03118**
Crvenković, Siniša *see* **Madarász, Rozália Sz., 94d:03118**
Jónsson, Bjarni (*with* Tsinakis, Constantine) Relation algebras as residuated Boolean algebras. **94i:03120**
Madarász, Rozália Sz. (*with* Crvenković, Siniša) ★ Relacione algebre. (Serbo-Croatian) [Relation algebras] **94d:03118**
Maddux, Roger D. Relation algebras of every dimension. (English summary) **94b:03101**
Rozenberg, S. M. Specialized relation algebras and Halmos algebras. (Russian. Russian summary) **94i:03121**
Serény, György Isomorphisms of finite cylindric set algebras of characteristic zero. (English summary) **94h:03125**
Tsinakis, Constantine *see* **Jónsson, Bjarni, 94i:03120**
Volkov, N. D. On the equivalence of the categories of Halmos algebras and relation algebras. (Russian. Russian summary) **94h:03126**

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Cīrulis, Jānis Superdiagonals of universal algebras. (English, Russian and Latvian summaries) (*see* **94b:00031**)
Crvenković, Siniša (*with* Madarász, Rozália Sz.) On Kleene algebras. (English summary) **94g:08009**
Jónsson, Bjarni A survey of Boolean algebras with operators. (English summary) **94h:06016**
Madarász, Rozália Sz. *see* **Crvenković, Siniša, 94g:08009**
Orłowska, Ewa Algebraic aspects of the relational knowledge representation: modal relation algebras. (English summary) **94b:68107**
Schmidt, Gunther W. (*with* Ströhlein, Thomas) ★ Relations and graphs. (English summary) **94h:00001**
Ströhlein, Thomas *see* **Schmidt, Gunther W., 94h:00001**

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Problem Sessions:
Lattice theory The Jónsson Symposium problem sessions.
Relation algebras The Jónsson Symposium problem sessions.
Universal algebra The Jónsson Symposium problem sessions.

03G20 Łukasiewicz and Post algebras [see also 06D25, 06D30]

Ambrosio, R. (*with* Lettieri, A.) A classification of bipartite MV-algebras. (English summary) **94g:03119**
Beavers, M. G. Extensions of the $\aleph_0$-valued Łukasiewicz propositional logic. (English summary) **94h:03127**
Coulon, Jean-Louis *see* **Coulon, Josette, 94j:03129**
Coulon, Josette (*with* Coulon, Jean-Louis) Un nouveau résultat concernant la représentation d'une algèbre des Łukasiewicz involutive dans l'algèbre de parties floues d'une structure floue involutive. (English summary) [A new result concerning the representation of an involutory Łukasiewicz algebra in the algebra of fuzzy subsets of an involutory fuzzy structure] **94j:03129**
Gluschankof, Daniel Prime deductive systems and injective objects in the algebras of Łukasiewicz infinite-valued calculi. **94h:03128**
Lettieri, A. *see* **Ambrosio, R., 94g:03119**
Mundici, Daniele Logic and algebra in Ulam's searching game with lies. **94j:03130**
Xiao, Chang Jian A proof of the isomorphism of the algebras C_B and Lu3. (Chinese. English and Chinese summaries) **94j:03131**

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Bolc, Leonard (*with* Borowik, Piotr) ★ Many-valued logics. Vol. 1. **94h:03045**
Borowik, Piotr *see* **Bolc, Leonard, 94h:03045**
Chen, Xie Xiong *see* **Wu, Hao Min; et al., 94j:03053**
Figallo, Aldo V. (*with* Tolosa, Juán J.) I_3-algebras with an additional operation. (English summary) **94d:03119**
Georgescu, George Pierce sheaf and the duality of Łukasiewicz-Moisil algebras. **94d:06032**
Lacava, Francesco On the free countable L_3-algebra. (Italian. English summary)
Matei, St. Numeroidal algebras and pseudo-numeroidal algebras. (English summary) (*see* **94j:00025**)
Rudeanu, Sergiu On Łukasiewicz-Moisil algebras of fuzzy sets. (English summary) **94b:03097**
Sequeira, M. Double MS_n-algebras and double $K_{n,m}$-algebras. (English summary) **94f:06014**
Tolosa, Juán J. *see* **Figallo, Aldo V., 94d:03119**
Wu, Hao Min (*with* Zhuang, Nan; Chen, Xie Xiong) Degenerate ternary logic and its application. (Chinese. English and Chinese summaries) **94j:03053**
Zhuang, Nan *see* **Wu, Hao Min; et al., 94j:03053**

03G25 Other algebras related to logic [see also 06F35]

Barwise, K. Jon (*with* Etchemendy, John) Information, infons, and inference. (*see* **94i:03068**)
D'Agostino, Giovanna Reflexive points in the topological study of diagonalizable algebras. (Italian summary) **94h:03129**
Dietrich, Jens CL-monoids of 1-place propositional connectives. (English summary)
Di Nola, Antonio Representation and reticulation by quotients of MV-algebras. (English summary) **94b:03102**
Etchemendy, John *see* **Barwise, K. Jon, (94i:03068)**
Figallo, Aldo V. (*with* Tolosa, Juán J.) I_3-algebras with an additional operation. (English summary) **94d:03119**
— On the congruences in four-valued modal algebras. (English summary) **94h:03130**
García Olmedo, Francisco M. (*with* Rodríguez Salas, Antonio J.) Pretemporal algebras. (English and French summaries) **94m:03101**
Hata, Yutaka (*with* Yuhara, Masaharu; Miyawaki, Fujio; Yamato, Kazuharu) Enumeration of multiple-valued Kleenean functions and some related properties. (English summary) **94k:03081**
Hu, Bao Qing Equivalence of fuzzy implication algebras and bounded BCK-algebras. (Chinese)
Kabziński, Jacek K. Abelian groups and identity connective.
Manes, Ernest G. Equations for if-then-else. (*see* **94g:68008**)
Meng, Jie Fuzzy ideals of BCI-algebras. (English summary)
Miyawaki, Fujio *see* **Hata, Yutaka; et al., 94k:03081**
Rodríguez Salas, Antonio J. *see* **García Olmedo, Francisco M., 94m:03101**
Shavrukov, V. Yu. A note on the diagonalizable algebras of PA and ZF. (English summary) **94h:03132**
— Subalgebras of diagonalizable algebras of theories containing arithmetic. **94h:03131**
Tolosa, Juán J. *see* **Figallo, Aldo V., 94d:03119**
Yamato, Kazuharu *see* **Hata, Yutaka; et al., 94k:03081**
Yuhara, Masaharu *see* **Hata, Yutaka; et al., 94k:03081**

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Adams, M. E. (*with* Dziobiak, Wiesław) Q-universal quasivarieties of algebras. **94f:08019**
Ahmad, B. Fuzzy BCI-algebras. (English summary)
de Alcantara, L. P. *see* **Seoane, José, 94e:03026**
Alves, Elias H. (*with* Queiroz, Giovanni S.) The construction of the calculi C_n of da Costa. **94f:03035**
Arora, Ashok K. *see* **Goel, Sudhir K., 94d:06046**
Aslam, M. (*with* Deeba, E. Y.; Thaheem, A. B.) On spectral properties of BCK-algebras. (English summary) **94g:06030**
— (*with* Thaheem, A. B.) A new proof of the prime ideal theorem for BCK-algebras. (English summary)
— (*with* Thaheem, A. B.) Addendum to this paper: "On certain ideals of BCK-algebras" [Math. Japon. **36** (1991), no. 5, 895–906; MR 92g:06030].
Bărbăcioru, Cătălin Positive implicative BCK-algebras. (English summary) **94f:06019**
— Maximal algebras of quotients. (English summary) **94k:06011**
Blok, W. J. (*with* Raftery, J. G.) Failure of the congruence extension property in BCK-algebras and related structures. (English summary) **94c:06023**
Cella, C. (*with* Lettieri, A.) Pre-Boolean MV-algebras as bipartite MV-algebras. (English summary) **94a:06027**
Chen, Xie Xiong *see* **Wu, Hao Min; et al., 94j:03053**
Chen, Zhao Mu The direct sum of well BCI-algebras. (Chinese. English and Chinese summaries)
— (*with* Huang, Yi Sheng[2]) Idempotent element rings. (English summary) **94d:06045**
— *see also* **Huang, Yi Sheng[2]**
Deeba, E. Y. *see* **Aslam, M.; et al., 94g:06030**
Diener, Karl-Heinz On the natural order relation in Peano algebras with finitary or infinitary operations.
Dudek, Wiesław A. On BCC-algebras. **94c:06024**
Dziobiak, Wiesław *see* **Adams, M. E., 94f:08019**
Font i Llovet, Josep Ma. (*with* Verdú, Ventura) Algebraic logic for classical conjunction and disjunction. (English summary) **94a:03007**
— (*with* Rodríguez Pérez, Gonzalo) A note on Sugihara algebras. (English summary) **94a:08009**
Gaitan, Hernando Quasivarieties of Wajsberg algebras. (English summary) **94b:03047**

— The number of simple one-generated bounded commutative BCK-chains. (English summary) **94c:06025**
Ginschankof, Daniel Cyclic ordered groups and MV-algebras. **94a:06034**
Goel, Sudhir K. (*with* Arora, Ashok K.) Left permutable BCI-algebras. (English summary) **94d:06046**
Guo, Tuo Ying An extension from normal BCI-algebras to nonnormal BCI-algebras. (English and Chinese summaries)
— The structure of a class of BCI-algebras. (English summary)
— A class of p-semisimple BCI-algebras. (English summary)
Hoo, C. S. (*with* Jun, Young Bae) Essential ideals and homomorphisms in BCI-algebras. (English summary) **94f:06020**
— (*with* Jun, Young Bae) p-projective BCI-algebras. (English summary)
— (*with* Jun, Young Bae) Strongly p-projective BCI-algebras. (English summary)
— Fuzzy ideals of BCI and MV-algebras. (English summary) **94i:06020**
Hu, Qing Ping (*with* Hu, Zhi Gang) Some problems on the natural partial order of BCI-algebras. I. (Chinese. Chinese summary) **94b:06024**
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Huang, Yi Sheng[2] (*with* Chen, Zhao Mu) On J-semisimplicity of S-IBCK-algebras. (English summary)
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Jiang, Hao J-extensions of BCK-algebras. (Chinese. English and Chinese summaries) **94e:06013**
— Atlas of proper BCI-algebras of order $n \leq 5$. (English summary) **94c:06026**
— Generalized Iseki's extension of BCK-algebras. (English summary) **94d:06047**
— A note on proper BCI-algebras of order four. (English summary)
Jónsson, Bjarni A survey of Boolean algebras with operators. (English summary) **94h:06016**
Jun, Young Bae (*with* Roh, Eun Hwan) Characterizations of commutative BCI-algebras.
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— A note on nil ideals in BCI-algebras. (English summary)
— (*with* Meng, Jie; Roh, Eun Hwan) On nil ideals in BCI-algebras. (English summary)
— Fuzzy topological BCK-algebras. (English summary)
— (*with* Meng, Jie) A characterization of closed fuzzy ideals in finite BCI-algebras. (English summary)
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Kabziński, Jacek K. On the unique axiom of BCII class.
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Kondo, Michiro Representation theorem of quasi-Kleene algebras in terms of Kripke-type frames. (English summary) **94a:06028**
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Leiss, Hans Towards Kleene algebra with recursion. (English summary) (*see* **94c:68001**)
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Liao, Zu Wei Minimal axiomatic system of fuzzy logical algebra. (English summary) **94d:04011**
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Meng, Jie Commutative ideals in BCK-algebras. (Chinese. English summary) **94m:06022**
— (*with* Xin, Xiao Long) Implicative BCI-algebras. (Chinese. English summary)
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— (*with* Wei, Shi Ming) Periods of elements in BCI-algebras. (English summary) **94c:06027**
— (*with* Wei, Shi Ming) Periodic BCI-algebras and closed ideals. (English summary) **94c:06028**
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Pal'chunov, D. E. (*with* Touraille, Alain) On some connections between Boolean algebras and Heyting algebras. (English summary) **94g:06018**
Peng, Jiu Qi Normal forms of quasicommutative BCI- and BCK-algebras. (Chinese. English and Chinese summaries)
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Peretyat'kin, M. G. Semantic universality of theories over a superlist. (Russian. Russian summary) **94h:03065**
Pigozzi, Don L. (*with* Salibra, Antonino) A representation theorem for lambda abstraction algebras. (English summary) **94k:03017**
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Reyes, Gonzalo E. (*with* Zawadowski, Marek W.) Formal systems for modal operators on locales. (English summary) **94m:03102**
Rodríguez Pérez, Gonzalo *see* **Font i Llovet, Josep Ma., 94a:08009**
Roh, Eun Hwan *see* **Jun, Young Bae**
Rudeanu, Sergiu On Lukasiewicz-Moisil algebras of fuzzy sets. (English summary) **94b:03097**
Salibra, Antonino *see* **Pigozzi, Don L., 94k:03017**
Savini, Sonia (*with* Sewald, Julio; Ziliani, Alicia) I_n-symmetrical Heyting algebras. (English summary) **94a:06025**
Seoane, José (*with* de Alcantara, L. P.) On da Costa algebras. **94e:03026**
Sequeira, M. Fixed points in MS_2-algebras. (English summary) **94i:06013**
Sewald, Julio *see* **Savini, Sonia; et al., 94a:06025**
Słomczyńska, Katarzyna Decompositions and projections in equivalential algebras. **94g:06019**
— Normal retractions in ordered equivalential algebras. **94g:06020**
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Touraille, Alain *see* **Pal'chunov, D. E., 94g:06018**
Vaggione, Diego J. Sheaf representation of lattice-ordered structures. (Spanish) **94a:08002**
Verdú, Ventura *see* **Font i Llovet, Josep Ma., 94a:03007**
Volgin, L. I. ★ Свойства и структуры функций осреднения. (Russian. Russian summary) [The properties and structures of averaging functions] **94m:94035**
Wagner, Gerd Lindenbaum-algebraic semantics of logic programs. (English summary) **94f:68059**
Wehrung, Friedrich Metric properties of positively ordered monoids. (English summary) **94g:06025**
Wei, Shi Ming *see* **Meng, Jie, 94c:06027** *and* **94c:06028**
Wu, Hao Min (*with* Zhuang, Nan; Chen, Xie Xiong) Degenerate ternary logic and its application. (Chinese. English and Chinese summaries) **94j:03053**
Xie, Kai Duan Antiweakly simple BCI-algebras. (Chinese. English and Chinese summaries)
Xie, Ping Characterizations of the structure of two classes of BCI-algebras. (Chinese. English summary)
Xin, Xiao Long Free BCH-algebras. (Chinese. English and Chinese summaries)
— *see also* **Meng, Jie**
Xu, Yang (*with* Qin, Ke Yun) On filters of lattice implication algebras. (English summary) **94b:06016**
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Zhang, De Xue (*with* Liu, Ying Ming) L-fuzzy spectra of complete Heyting algebras. (Chinese. Chinese summary)
Zhang, Qun A Lagrange theorem for BCI-algebras. (English summary) **94b:06025**
— Regular BCI-algebras. (English summary)
Zhang, Xiao Hong (*with* Peng, Jiu Qi) A class of ideal subalgebras of BCI-algebras. (Chinese. English and Chinese summaries)
Zhao, Xian Zhong Finite implicative BCK-algebras. (Chinese. English summary) **94m:06023**
Zhuang, Nan *see* **Wu, Hao Min; et al., 94j:03053**
Ziliani, Alicia *see* **Savini, Sonia; et al., 94a:06025**

03G30 Categorical logic, topoi [see also 18B25]

Alcolea Banegas, Jesús *see* **Climent Vidal, Joan B., 94a:03095**
Climent Vidal, Joan B. (*with* Alcolea Banegas, Jesús) Institutions and heterogeneity. (Spanish. English summary) **94a:03095**
Hu, Hongde Dualities for accessible categories. (English summary) **94b:03103**
Huth, Michael Cartesian closed categories of domains and the space Proj(D). (English summary) (*see* **94g:68008**)
Mac Lane, Saunders (*with* Moerdijk, Ieke) Reals and forcing with an elementary topos. (English summary) **94h:03133**
Makkai, Michael Duality and definability in first order logic. (English summary) **94b:03104**
Moerdijk, Ieke *see* **Mac Lane, Saunders, 94h:03133**
Monro, G. P. Logic, sheaves, and factorization systems. **94k:03082**
Reyes, Gonzalo E. (*with* Zawadowski, Marek W.) Formal systems for modal operators on locales. (English summary) **94m:03102**
Rosenthal, Kimmo I. A note on categories enriched in quantaloids and modal and temporal logic. (French summary) **94j:03132**
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Alajbegović, J. (*with* Močkoř, Jiří) ★ Approximation theorems in commutative algebra. (English summary) **94d:13001**
Bagchi, Atish De Morgan's law and related identities in classifying topoi. (English summary) **94h:03069**
Bénabou, Jean (*with* Loiseau, Bruno) Orbits and monoids in a topos. (English summary) **94k:18002**
Boldini, Pascal Structuration cognitive et logique intrinsèque. (English and French summaries) [Cognitive structuration and intrinsic logic] **94d:68100**
Coulon, Jean-Louis (*with* Coulon, Josette; Höhle, Ulrich) Injectivité dans la catégorie des ensembles fortement M-valués complets. (English summary) [Injectivity in the category of complete strongly M-valued sets] **94b:18001**
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Cury, F. Complétion et complétude selon H. Andréka et I. Németi. [Completion and completeness according to H. Andréka and I. Németi] **94f:18006**
Dougherty, Daniel J. Closed categories and categorical grammar. (English summary) **94b:03056**
Gamatie, B. Intensionally stable functions. (English summary) **94j:03032**
Gardiner, P. H. B. (*with* Martin, Clare; de Moor, Oege) An algebraic construction of predicate transformers. (English summary) **94i:18006**
Höhle, Ulrich *see* **Coulon, Jean-Louis; et al., 94b:18001**
Hyland, J. Martin E. (*with* Ong, C.-H. Luke) Modified realizability toposes and strong normalization proofs (extended abstract). (English summary) (*see* **94b:68025**)
Isbell, John Corrections to: "First steps in descriptive theory of locales" [Trans. Amer. Math. Soc. 327 (1991), no. 1, 353–371; MR 92b:54078]. **94c:54071**
Jacobs, Bart Comprehension categories and the semantics of type dependency. (English summary) **94i:18009**
Knijnenburg, P. M. W. (*with* Nordemann, F.) A categorical interpretation of partial function logic and Hoare logic. (English summary) **94j:03067**
Lee, E. Stanley *see* **Yuan, Xue Hai, 94g:03052**
Loiseau, Bruno *see* **Bénabou, Jean, 94k:18002**
Makkai, Michael The fibrational formulation of intuitionistic predicate logic I: completeness according to Gödel, Kripke, and Läuchli. I. (English summary) **94h:03013**
Martin, Clare *see* **Gardiner, P. H. B.; et al., 94i:18006**
McLarty, Colin ★ Elementary categories, elementary toposes. **94c:18001**

— Failure of Cartesian closedness in NF. **94a:03084**
Močkoř, Jiří *see* **Alajbegović, J., 94d:13001**
de Moor, Oege *see* **Gardiner, P. H. B.; et al., 94i:18006**
Nordemann, F. *see* **Knijnenburg, P. M. W., 94j:03067**
O'Hearn, P. W. A model for syntactic control of interference. (English summary) **94k:68022**
Ong, C.-H. Luke *see* **Hyland, J. Martin E., (94b:68025)**
Panangaden, Prakash (*with* Saraswat, Vijay A.; Scott, Philip J.; Seely, R. A. G.) A hyperdoctrinal view of concurrent constraint programming. (English summary) **94i:68045**
Pfalzgraf, J. Logical fiberings and polycontextural systems. (English summary) (*see* **94b:68011**)
Rosenthal, Kimmo I. Linear indexed quantales and quantalic hyperdoctrines. **94a:18001**
Saraswat, Vijay A. *see* **Panangaden, Prakash; et al., 94i:68045**
Scott, Philip J. *see* **Panangaden, Prakash; et al., 94i:68045**
Seely, R. A. G. *see* **Panangaden, Prakash; et al., 94i:68045**
Solov'ev, S. V. A complete axiom system for isomorphism of types in closed categories. (English summary) **94i:03072**
Yuan, Xue Hai (*with* Lee, E. Stanley) Categorical analysis of logic operators on fuzzy sets. (English summary) **94g:03052**

03G99 None of the above, but in this section

Items with secondary classifications in 03G99

Pigozzi, Don L. A lattice-theoretic characterization of equivalent quasivarieties. (English summary) **94b:08020**

03Hxx Nonstandard models [see also 03C62]

03H05 Nonstandard models in mathematics [see also 26E35, 28E05, 30G06, 46S20, 47S20, 54J05]

Ben El Mamoune, Idriss (*with* Benoît, Éric; Lobry, Claude) Une version non standard du théorème de F. Riesz. (English and French summaries) [A nonstandard version of a theorem of F. Riesz] **94b:03105**
Benoît, Éric (*with* Candelpergher, B.; Lobry, Claude) Continuity of trajectories of random walks with infinitesimal steps. (*see* **94b:00040**)
— *see also* **Ben El Mamoune, Idriss; et al., 94b:03105**
Candelpergher, B. *see* **Benoît, Éric; et al., (94b:00040)**
Capiński, Marek (*with* Cutland, Nigel J.) The Euler equation: a uniform nonstandard construction of a global flow, invariant measures and statistical solutions. (English summary) **94k:03083**
Cutland, Nigel J. (*with* Ng, Siu-Ah) The Wiener sphere and Wiener measure. (English summary) **94b:03106**
— *see also* **Capiński, Marek, 94k:03083**
Jin, Renling The isomorphism property versus the special model axiom. (English summary) **94c:03079**
Kollreider, Christoph (*with* Liedl, Roman) Non-standard-analysis in statu nascendi. (German) (*see* **94m:00034**)
Liedl, Roman *see* **Kollreider, Christoph, (94m:00034)**
Lobry, Claude *see* **Ben El Mamoune, Idriss; et al., 94b:03105** *and* **Benoît, Éric; et al., (94b:00040)**
Mattes, Josef Axiomatic approaches to nonstandard analysis. **94d:03120**
Molchanov, V. A. A nonstandard approach to duality theory. (Russian) (*see* **94j:00017**)
Ng, Siu-Ah *see* **Cutland, Nigel J., 94b:03106**
Osswald, Horst A note on liftings of linear continuous functionals. **94g:03120**
Péraire, Yves Analyse relative. [Relative analysis] **94j:03133**
— Infinitesimal approach of [to] almost-automorphic functions. (English summary) **94m:03103**
Spalt, Detlef D. Zur Genese des algebraischen Kontinuums. [On the genesis of the algebraic continuum] (*see* **94m:00034**)
Živaljević, Boško Lusin-Sierpiński index for the internal sets. **94a:03096**
— Graphs with $\Pi^0_1(\kappa)$ Y-sections. (English summary) **94e:03065**

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Aldaz, J. M. A characterization of universal Loeb measurability for completely regular Hausdorff spaces. (English summary) **94b:28008**
Berz, Martin Automatic differentiation as non-Archimedean analysis. (English summary) **94c:12013**
Blanco, Liliana *see* **Takeuchi, Yu, 94g:46093**
Bukhvalov, A. V. (*with* Korotkov, V. B.; Kusraev, A. G.; Kutateladze, S. S.; Makarov, B. M.) ★ Векторные решетки и интегральные операторы. (Russian. Russian summary) [Vector lattices and integral operators] **94b:46001**
Callot, Jean-Louis Champs lents-rapides complexes à une dimension lente. (English summary) [Slow-fast vector fields with one slow dimension] **94e:34057**
Capiński, Marek *see* **Cutland, Nigel J., 94k:35244**
Chen, Guang Yi The hyper-global asymptotic stability of autonomous system. (English summary) **94f:34101**
(Cheng, Min De) *see* **Huang, Cheng Gui, 94g:00002**
Colombeau, Jean-François ★ Multiplication of distributions. **94h:46066**
Cutland, Nigel J. (*with* Feng, Han Qiao) An infinitesimal proof of the implicit function theorem. **94d:26021**
— (*with* Capiński, Marek) Nonstandard methods for Navier-Stokes equations. **94k:35244**
Diener, Marc Regularizing microscopes and rivers. (English summary) **94m:34140**
Di Nola, Antonio Representation and reticulation by quotients of MV-algebras. (English summary) **94b:03102**
Dougherty, Randall (*with* Jackson, Stephen Craig; Kechris, Alexander S.) The structure of hyperfinite Borel equivalence relations. **94c:03066**
Dronov, S. V. *see* **Kozlov, S. D., 94a:03083**
Drossos, Costas A. (*with* Markakis, George; Shakhatreh, M.) A nonstandard approach to fuzzy set theory. (English summary) **94d:03109**
Engeler, Erwin ★ Foundations of mathematics. (English summary) **94i:03001**
Fajardo, Sergio Introduction to the theory of Banach space models. (Spanish) **94m:46122**
Feng, Han Qiao *see* **Cutland, Nigel J., 94d:26021**
Fruchard, Augustin Canards et râteaux. (English and French summaries) [Canards and rakes] **94e:58070**
Gaunet, Marie-Laure *see* **Paysant-Le Roux, Roger; et al., 94c:11122**
Gordon, E. I. Nonstandard analysis and locally compact abelian groups. **94f:22004**
Guererro, Juan Representation of distributions by nonstandard functions. (Spanish. Spanish summary) **94b:46066**
Hellegouarch, Yves *see* **Paysant-Le Roux, Roger; et al., 94c:11122**
Hoskins, Roy Frank (*with* de Sousa Pinto, J.) Nonstandard treatments of new generalised functions. **94i:46049**
Huang, Cheng Gui ★ Liang xiang weijifenxue. (Chinese. Chinese summary) [Two-phase calculus] **94g:00002**
— ★ δ hanshu de xin lilun. (Chinese. Chinese summary) [A new theory of δ functions] **94a:46049**
Insall, Matt Corrigendum to: "Some finiteness conditions in lattices—using nonstandard proof methods" [J. Austral. Math. Soc. Ser. A **53** (1992), no. 2, 266–280; MR 93i:06001]. **94b:06001**
Jackson, Stephen Craig *see* **Dougherty, Randall; et al., 94c:03066**
Kanovei, V. G. The extension principle in internal set theory. (Russian. Russian summary) **94d:03108**
Kechris, Alexander S. *see* **Dougherty, Randall; et al., 94c:03066**
Korotkov, V. B. *see* **Bukhvalov, A. V.; et al., 94b:46001**
Kozlov, S. D. (*with* Dronov, S. V.) A method for constructing the field of real numbers in alternative set theory. (Russian) **94a:03083**
Kusraev, A. G. *see* **Bukhvalov, A. V.; et al., 94b:46001**
Kutateladze, S. S. *see* **Bukhvalov, A. V.; et al., 94b:46001**
Li, Bang He (*with* Li, Ya Qing) New generalized functions in nonstandard framework. (English summary) **94e:46072**
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Lindstrøm, Tom Nonstandard analysis, iterated function systems, and Brownian motion on fractals. **94k:60124**
Lintz, R. G. The theory of manifolds from the nondeterministic point of view. (English summary) **94e:54056**
Loeb, Peter Nonstandard analysis and measure theory. **94d:28023**
Machover, Moshé The place of nonstandard analysis in mathematics and in mathematics teaching. **94d:00007**
Makarov, B. M. *see* **Bukhvalov, A. V.; et al., 94b:46001**
Markakis, George *see* **Drossos, Costas A.; et al., 94d:03109**
(Martinet, Jean) *see* **Ramis, Jean-Pierre, 94m:01035**
Mattes, Josef Classes and internal set theory. **94b:03095**
Molchanov, V. A. Nonstandard completions of topological algebraic systems. (Russian) **94m:54100**
— Continuous convergences of mappings. (Russian) **94m:54101**
Murakami, Masahiko A nonstandard proof of the continuity of zeros of polynomials. (English summary) **94c:12001**
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Pestov, V. G. Nonstandard hulls of Banach-Lie groups and algebras. (English summary) **94h:46076**
Ponosov, A. V. Stationary solutions to infinite-dimensional stochastic equations and nonstandard analysis. (English summary) (*see* **94e:00020**)
Qi, Ming (*with* Shi, Dong He) The representation of Radon probability measures by Loeb measures on compact perfectly normal T_2 spaces. (Chinese. English and Chinese summaries) **94k:28035**
Ramis, Jean-Pierre Les derniers travaux de Jean Martinet. (English summary) [The last works of Jean Martinet] **94m:01035**
Render, Hermann Pushing down Loeb measures. **94k:28033**
Salbany, Sergio (*with* Todorov, Todor D.) Nonstandard and standard compactifications of ordered topological spaces. (English summary) **94e:54042**
Salce, Luigi Nonstandard uniserial modules. (Italian. English and Italian summaries) **94g:13004**
Sánchez-Pedreño G., S. Two-point BVP for the equations $\dot{x} = f(t,x)^{2n+1}$, for large n. (English summary) (*see* **94e:00020**)
— Phase-space analysis of a nonoscillatory "highly nonlinear" boundary value problem. **94b:34039**
Senkevich, T. Ya. (*with* Ustinova, T. A.) Countable compactness in pseudotopological spaces in terms of nonstandard analysis. (Russian. Russian summary) (*see* **94f:00014**)
— Convergence groups in terms of nonstandard analysis. (Russian. Russian summary) (*see* **94d:00011**)
Shakhatreh, M. *see* **Drossos, Costas A.; et al., 94d:03109**
Shi, Dong He *see* **Qi, Ming, 94k:28035**
Sochor, A. Complexity of the axioms of the alternative set theory. (English summary) **94h:03108**
Solay Rakotonirainy, Georges *see* **Spinelli, Patricia, 94c:49006**
de Sousa Pinto, J. *see* **Hoskins, Roy Frank, 94i:46049**
Spinelli, Patricia (*with* Solay Rakotonirainy, Georges) Existence d'un contrôle optimal via l'analyse non standard. (English summary) [Existence of an optimal control via nonstandard analysis] **94c:49006**
(Stepanov, V. D.) *see* **Bukhvalov, A. V.; et al., 94b:46001**
Sun, Guang Run *see* **Xu, Li Zhi, 94a:26051**
Takeuchi, Yu (*with* Blanco, Liliana) Nonstandard representation of the Riesz theorem. (Spanish) **94g:46093**
(Thomas, Charles B.) *see* **Engeler, Erwin, 94i:03001**
Todorov, Todor D. *see* **Salbany, Sergio, 94e:54042**
Ustinova, T. A. *see* **Senkevich, T. Ya., (94f:00014)**

Wu, Jiang Lun Radon extension of cylindrical measures on weak dual multi-Hilbertian spaces and the generalized Bochner theorem. (English summary) **94c:60010**
Xu, Li Zhi (*with* Sun, Guang Run) Simple nonstandard analysis proofs of some well-known theorems on infinite series, and some comments. (Chinese. English and Chinese summaries) **94a:26051**
(Zhang, Jin Wen) *see* **Huang, Cheng Gui, 94g:00002**

03H10 Other applications of nonstandard models (economics, physics, etc.)

Items with secondary classifications in 03H10

Albeverio, Sergio (*with* Gesztesy, Friedrich; Høegh-Krohn, Raphael J.; Holden, Helge) ★ Решаемые модели в квантовой механике. (Russian. Russian summary) [Solvable models in quantum mechanics] **94j:81001**
Capiński, Marek *see* **Cutland, Nigel J., 94k:35244**
Cutland, Nigel J. (*with* Capiński, Marek) Nonstandard methods for Navier-Stokes equations. **94k:35244**
Fittler, Robert Asymptotic nonstandard quantum electrodynamics. (English summary) **94h:81097**
(Geiler, V. A.) *see* **Albeverio, Sergio; et al., 94j:81001**
Gesztesy, Friedrich *see* **Albeverio, Sergio; et al., 94j:81001**
Høegh-Krohn, Raphael J. *see* **Albeverio, Sergio; et al., 94j:81001**
Holden, Helge *see* **Albeverio, Sergio; et al., 94j:81001**
Konno, Norio A formalism of multidimensional living systems based on nonstandard analysis. **94d:92002**
(Kuperin, Yu. A.) *see* **Albeverio, Sergio; et al., 94j:81001**
(Makarov, K. A.) *see* **Albeverio, Sergio; et al., 94j:81001**
(Pavlov, B. S.) *see* **Albeverio, Sergio; et al., 94j:81001**
Solay Rakotonirainy, Georges *see* **Spinelli, Patricia, 94c:49006**
Spinelli, Patricia (*with* Solay Rakotonirainy, Georges) Existence d'un contrôle optimal via l'analyse non standard. (English summary) [Existence of an optimal control via nonstandard analysis] **94c:49006**

03H15 Nonstandard models of arithmetic [see also 11U10, 12L15, 13L05]

Adamowicz, Zofia A contribution to the end-extension problem and the Π_1 conservativeness problem. (English summary) **94h:03134**
Kossak, Roman (*with* Paris, Jeffrey B.) Subsets of models of arithmetic. (English summary) **94e:03066**
Paris, Jeffrey B. *see* **Kossak, Roman, 94e:03066**

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Ajtai, Miklós Parity and the pigeonhole principle. **94g:03112**
Drágalin, Albert G. An explicit Boolean-valued model for nonstandard arithmetic. (English summary) **94g:03074**
Hájek, Petr (*with* Pudlák, Pavel) ★ Metamathematics of first-order arithmetic. **94d:03001**
Kaye, Richard William Open induction, Tennenbaum phenomena, and complexity theory. **94h:03118**
Pudlák, Pavel *see* **Hájek, Petr, 94d:03001**
Riis, Søren Making infinite structures finite in models of second order bounded arithmetic. (English summary) **94f:03070**
Schmerl, James H. A weakly definable type which is not definable. (English summary) **94i:03110**
Smith, Stuart T. Quadratic residues and $x^3 + y^3 = z^3$ in models of IE_1 and IE_2. (English summary) **94j:03116**
Visser, Albert The unprovability of small inconsistency. A study of local and global interpretability. (English summary) **94c:03073**

04–XX Set theory [see also 03Exx]

04–01 Instructional exposition (textbooks, tutorial papers, etc.)

Cui, Hong Zhi The Dirichlet pigeonhole principle for transfinite numbers. (Chinese. Chinese summary)

Items with secondary classifications in 04–01

Aarts, Jan M. The continuum hypothesis. (Dutch) (*see* **94f:00021**)
(Deheuvels, Paul) *see* **Gostiaux, Bernard, 94h:00002a**
Devlin, Keith J. ★ Sets, functions and logic. **94f:00002**
Foran, James ★ Fundamentals of real analysis. **94e:00002**
Gostiaux, Bernard ★ Cours de mathématiques spéciales. Tome 1. (French. French summary) [Course on special mathematics. Vol. 1] **94h:00002a**
Schmidt, Gunther W. (*with* Ströhlein, Thomas) ★ Relations and graphs. (English summary) **94h:00001**
Ströhlein, Thomas *see* **Schmidt, Gunther W., 94h:00001**

04–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 04–02

(Mycielski, Jan) *see* **Wagon, Stan, 94g:04005**
Wagon, Stan ★ The Banach-Tarski paradox. (English summary) **94g:04005**

04–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 04–03

(Bolzano, Bernard) *see* **Sebestik, Jan, 94h:01024**
Breger, Herbert A restoration that failed: Paul Finsler's theory of sets. (*see* **94c:00018**)
(Cantor, Georg) *see* **Ferreirós Domínguez, José, 94h:01019**
Cooke, Roger L. Uniqueness of trigonometric series and descriptive set theory, 1870–1985. **94h:01017**
(Dedekind, Richard) *see* **Jourdain, Philip E. B., 94f:01025** *and* **Ferreirós Domínguez, José, 94h:01019**
Ferreirós Domínguez, José On the relations between Georg Cantor and Richard Dedekind. (English, German and Spanish summaries) **94h:01019**
(Finsler, Paul) *see* **Breger, Herbert, (94c:00018)**
Frápolli, María J. The status of Cantorian numbers. **94g:03008**
Garciadiego, Alejandro R. ★ Bertrand Russell and the origins of the set-theoretic "paradoxes". **94b:01033**
(Grattan-Guinness, Ivor) *see* **Garciadiego, Alejandro R., 94b:01033** *and* **Jourdain, Philip E. B., 94h:01044**
Jourdain, Philip E. B. ★ Selected essays on the history of set theory and logics (1906–1918). **94h:01044**
— Richard Dedekind (1833–1916). **94f:01025**
(Kerry, Benno) *see* **Peckhaus, Volker, 94m:01033**
Ostasiewicz, Walenty Half a century of fuzzy sets. (English summary) **94d:04013**
Otero, María Isabel Some considerations about set theory. (Spanish)
Peckhaus, Volker Benno Kerry: Beiträge zu seiner Biographie. (English summary) [Benno Kerry: contributions to his biography] **94m:01033**
Pier, Jean-Paul Aspects de l'évolution des mathématiques entre 1900 et 1950. [Aspects of the evolution of mathematics between 1900 and 1950] **94k:01023**
Pla Carrera, Josep Dedekind and the theory of sets. (Spanish. English summary) **94h:01022**
(Russell, Bertrand) *see* **Garciadiego, Alejandro R., 94b:01033**
Sebestik, Jan ★ Logique et mathématique chez Bernard Bolzano. (French. French summary) [Logic and mathematics in Bernard Bolzano] **94h:01024**

Items listed otherwise than by author

Essays:
History of set theory and logics (1906–1918) *see* **Jourdain, Philip E. B., 94h:01044**

04–06 Proceedings, conferences, collections, etc.

(Duchoň, Miloslav) *see* **Fuzzy sets, 94b:04001**
(Riečan, Beloslav) *see* **Fuzzy sets, 94b:04001**

Items listed otherwise than by author

Conference:
Fuzzy Sets Theory and its Applications ★ Fuzzy sets. **94b:04001**
Fuzzy sets ★ Fuzzy sets. **94b:04001**
Liptovský Mikuláš ★ Fuzzy sets. **94b:04001**

04A03 Set algebra

Câmpian, V. Ordinal and cardinal membership. (Romanian. French summary)
Hejduk, Jacek Non-Baire sets in category bases. **94h:04001**

04A05 Relations, functions [see also 08A02]

Blizard, Wayne D. Dedekind multisets and function shells. (English summary) **94b:04002**
De Baets, B. (*with* Kerre, E. E.) A revision of Bandler-Kohout compositions of relations. (English summary) **94d:04001**
Diener, Karl-Heinz On the transitive hull of a κ-narrow relation. (English summary) **94m:04001**
Gao, Shu Dong The concept of function and the function axiom. (Chinese. English and Chinese summaries) **94d:04002**
Goldman, A. J. *see* **Steinsaltz, Steven J., 94f:04001**
Hagendorf, Jean Guillaume (*with* Lopez, Gérard) La demi-reconstructibilité des relations binaires d'au moins 13 éléments. (English and French summaries) [Half-reconstructibility of binary relations of cardinality at least 13] **94h:04002**
Ille, Pierre Recognition problem in reconstruction for decomposable relations. (English summary) **94m:04002**
Karásek, Jiří On a modification of relational axioms. **94b:04003**
Kerre, E. E. *see* **De Baets, B., 94d:04001**
Lopez, Gérard *see* **Hagendorf, Jean Guillaume, 94h:04002**
Steinsaltz, Steven J. (*with* Goldman, A. J.) Mereological relations. (English summary) **94f:04001**
Vorob'ev, O. Yu. ★ Сет-суммирование. (Russian. English and Russian summaries) [Set summation] **94f:04002**

Items with secondary classifications in 04A05

Augé Farreras, Juan Level sets and extension of monotone functions. (Spanish. English and Spanish summaries) **94d:26013**
Egorova, D. P. Categories of bins. (Russian) **94b:18002**
Freund, Michael A semantic characterization of disjunctive relations. (English summary) (*see* **94b:68011**)
Gnanvo, Cyprien (*with* Ille, Pierre) La reconstruction des tournois sans diamant. (English summary) [The reconstruction of diamond-free tournaments] **94k:05084**
Ille, Pierre *see* **Gnanvo, Cyprien, 94k:05084**
Kozeratskaya, L. N. (*with* Lebedeva, T. T.; Sergienko, I. V.) An investigation of the stability of discrete optimization problems. (Russian. English and Ukrainian summaries) **94m:90109**
Lebedeva, T. T. *see* **Kozeratskaya, L. N.; et al., 94m:90109**

Schmidt, Gunther W. (*with* Ströhlein, Thomas) ★ Relations and graphs. (English summary) **94h:00001**
Sergienko, I. V. *see* **Kozeratskaya, L. N.; et al., 94m:90109**
Šlapal, Josef Relations and topologies. **94b:54003**
— Cardinal arithmetic of general relational systems. **94c:08001**
Ströhlein, Thomas *see* **Schmidt, Gunther W., 94h:00001**
Wald, Burkhard A theory of unary pairfunctions. (English summary) **94i:20107**
Żembery, Ivan On a variety of infinite algebras. **94b:08017**

04A10 Ordinal and cardinal numbers; generalizations [see also 03E10]

Bagemihl, Frederick Ordinal numbers in arithmetic progression. (English summary) **94j:04001**
Normann, Dag Far and further than far. About transfinite induction. (Norwegian. English summary)

Items with secondary classifications in 04A10

Conway, J. H. On numbers and games. **94m:01040**
Cui, Hong Zhi The Dirichlet pigeonhole principle for transfinite numbers. (Chinese. Chinese summary)
Diener, Karl-Heinz On the transitive hull of a κ-narrow relation. (English summary) **94m:04001**
Di Prisco, Carlos A. (*with* Henle, James M.) Partitions of products. **94i:04002**
Frápolli, María J. The status of Cantorian numbers. **94g:03008**
Henle, James M. *see* **Di Prisco, Carlos A., 94i:04002**
Shelah, Saharon More on cardinal arithmetic. **94j:03100**

04A15 Descriptive set theory; Borel classifications, Suslin schemes, etc. [see also 03E15, 26A21, 28A05, 54H05]

Dougherty, Randall (*with* Foreman, Matthew) Banach-Tarski decompositions using sets with the property of Baire. **94e:04001**
Foreman, Matthew *see* **Dougherty, Randall, 94e:04001**
Jaskuła, Janusz (*with* Lech, Jarosław) On the sets $A + A$ and $A - A$. (English and Polish summaries) **94e:04002**
Lech, Jarosław *see* **Jaskuła, Janusz, 94e:04002**
Penconek, Marcin (*with* Zakrzewski, Piotr) The existence of nonmeasurable sets for invariant measures. (English summary) **94h:04003**
Scheepers, Marion Additive properties of sets of real numbers and an infinite game. (English summary) **94e:04003**
Zakrzewski, Piotr *see* **Penconek, Marcin, 94h:04003**

Items with secondary classifications in 04A15

Balcerzak, Marek On Marczewski sets and some ideals. (English summary) **94f:54075**
Bernardi, M. P. (*with* Bondioli, C.) Partitions of a locally compact group into nonmeasurable sets. (Italian. English summary) **94a:28002**
Bondioli, C. *see* **Bernardi, M. P., 94a:28002**
Bossard, Benoit Codages des espaces de Banach séparables. Familles analytiques ou coanalytiques d'espaces de Banach. (English and French summaries) [A coding of separable Banach spaces. Analytic and coanalytic families of Banach spaces] **94g:46022**
Cooke, Roger L. Uniqueness of trigonometric series and descriptive set theory, 1870–1985. **94h:01017**
Goldstern, Martin (*with* Shelah, Saharon) Many simple cardinal invariants. (English summary) **94c:03064**
Kahane, Sylvain On the complexity of sums of Dirichlet measures. (English and French summaries) **94h:43003**
— Finite union of H-sets and countable compact sets. **94e:43008**
— Antistable classes of thin sets in harmonic analysis. **94g:43005**
Kamo, Shizuo Some remarks about Mycielski ideals. **94i:03094**
Kharazishvili, A. B. On the Baire property and bases of ideals of sets of the first category. (Russian. English and Georgian summaries) **94i:54078**
— The Baire property and its applications. (Russian. English, Russian and Georgian summaries) **94m:28002**
Lecomte, Dominique Classes de Wadge potentielles des boréliens à coupes dénombrables. (English and French summaries) [Potential Wadge classes of Borel sets with countable sections] **94i:54080**
— Classes de Wadge potentielles et théorèmes d'uniformisation partielle. (French summary) [Potential Wadge classes and partial uniformization theorems] **94i:03099**
Louveau, Alain (*with* Shelah, Saharon; Veličković, Boban) Borel partitions of infinite subtrees of a perfect tree. (English summary) **94g:04003**
— (*with* Veličković, Boban) A note on Borel equivalence relations. **94f:54076**
Maitra, Ashok (*with* Sudderth, W.) The optimal reward operator in negative dynamic programming. (English summary) **94c:90107**
— Multiple separation theorems. **94d:03103**
(Mycielski, Jan) *see* **Wagon, Stan, 94g:04005**
Nymann, J. E. The sum of the Cantor set with itself. **94g:04004**
Rogava, V. M. On sets that do not have the Baire property. (Russian. English and Georgian summaries) **94c:54056**
Sami, Ramez L. Polish group actions and the Vaught conjecture. **94c:03068**
Shelah, Saharon *see* **Goldstern, Martin, 94c:03064** *and* **Louveau, Alain; et al., 94g:04003**
Sudderth, W. *see* **Maitra, Ashok, 94c:90107**
Veličković, Boban *see* **Louveau, Alain, 94f:54076** *and* **94g:04003**
Wagon, Stan ★ The Banach-Tarski paradox. (English summary) **94g:04005**

04A20 Combinatorial set theory [see also 03E05, 05A05]; filters

Balcerzak, Marek Orthogonal σ-ideals and almost disjoint families. (English and Polish summaries) **94i:04001**
Basso-Gerbelli, Mireille (*with* Ille, Pierre) La reconstruction des relations définies par interdits. (English and French summaries) [Reconstruction of relations defined by forbidding] **94e:04004**
Darji, Udayan B. Uniformly completely Ramsey sets. **94e:04005**
Di Prisco, Carlos A. (*with* Henle, James M.) Partitions of products. **94i:04002**
Elekes, G. (*with* Hajnal, András; Komjáth, Péter) Partition theorems for the power set. (English summary) **94e:04006**
García-Ferreira, Salvador Three orderings on $\beta(\omega) \setminus \omega$. (English summary) **94i:04003**
Hajnal, András *see* **Elekes, G.; et al., 94e:04006**
Henle, James M. *see* **Di Prisco, Carlos A., 94i:04002**
Hudson, Steven M. A marriage theorem with Lebesgue measure. **94h:04004**
Ille, Pierre *see* **Basso-Gerbelli, Mireille, 94e:04004**
Komjáth, Péter Set-theoretic constructions in Euclidean spaces. (English summary) **94g:04001**
— A decomposition theorem for $\mathbf{R}^n$. **94h:04005**
— *see also* **Elekes, G.; et al., 94e:04006**
Kowalsky, Hans-Joachim Abzählbar-primitive Ultrafilter. [Countably primitive ultrafilters] **94g:04002**
Louveau, Alain (*with* Shelah, Saharon; Veličković, Boban) Borel partitions of infinite subtrees of a perfect tree. (English summary) **94g:04003**
Méndez, Gisela M. Filters on the space of partitions $Q_\kappa(\lambda)$. **94h:04006**
Moloney, James J. An existence theorem for a special ultrafilter when $\mathfrak{d} = \mathfrak{c}$. **94m:04003**
Morawiec, A. (*with* Węglorz, B.) Prenormality of ideals and completeness of their quotient algebras. **94d:04003**
Nymann, J. E. The sum of the Cantor set with itself. **94g:04004**
Shelah, Saharon *see* **Louveau, Alain; et al., 94g:04003**
Simms, John C. Covering hyperspace with hypercurves. **94m:04004**
Veličković, Boban *see* **Louveau, Alain; et al., 94g:04003**
Veschambre, Philippe Cardinalité des ultraproduits. [Cardinality of ultraproducts] (*see* **94h:00017**)
Węglorz, B. *see* **Morawiec, A., 94d:04003**

Items with secondary classifications in 04A20

Ahlswede, Rudolf F. (*with* Cai, Ning) A generalization of the AZ identity. (English summary) **94g:05011**
Arocha Pérez, Jorge Luis (*with* Llano, Bernardo; Takane, Martha) The theorem of Philip Hall for vector spaces. **94e:05007**
Bartoszyński, Tomek (*with* Shelah, Saharon) Closed measure zero sets. (English summary) **94b:03084**
— (*with* Just, Winfried; Scheepers, Marion) Covering games and the Banach-Mazur game: K-tactics. (English summary) **94k:90167**
Bernardi, M. P. (*with* Bondioli, C.) Partitions of a locally compact group into nonmeasurable sets. (Italian. English summary) **94a:28002**
Blizard, Wayne D. Dedekind multisets and function shells. (English summary) **94b:04002**
Bondioli, C. *see* **Bernardi, M. P., 94a:28002**
Brochet, J.-M. The finite cutset property. (English summary) **94m:54061**
Cai, Ning *see* **Ahlswede, Rudolf F., 94g:05011**
Cutler, Doyle (*with* Dimitrić, Radoslav) Valuated vector spaces, Kurepa's hypothesis and abelian p-groups. (English summary) **94m:20107**
Diestel, Reinhard (*with* Shelah, Saharon; Steprāns, Juris) Dominating functions and graphs. (English summary) **94m:05167**
Dimitrić, Radoslav *see* **Cutler, Doyle, 94m:20107**
Fitina, L. F. *see* **Renaud, J.-C., 94a:05011**
García-Ferreira, Salvador (*with* Tamariz-Mascarúa, Angel) On p-sequential p-compact spaces. (English summary) **94m:54008**
Hodges, Wilfrid Existentially closed groups and determinacy. **94i:03078**
Just, Winfried *see* **Bartoszyński, Tomek; et al., 94k:90167**
Kahane, Sylvain Opérations de Hausdorff itérées et réunions croissantes de compacts. (English summary) [Iterated Hausdorff operations and increasing unions of compact sets] **94k:54071**
Komjáth, Péter The master coloring. **94a:05076**
Llano, Bernardo *see* **Arocha Pérez, Jorge Luis; et al., 94e:05007**
Milner, E. C. (*with* Pouzet, Maurice) Antichain decompositions of a partially ordered set. **94d:06010**
Păltănea, Eugen Nuclear configurations of maximal families with the property of "k-intersection". (*see* **94b:00033**)
Penconek, Marcin (*with* Zakrzewski, Piotr) The existence of nonmeasurable sets for invariant measures. (English summary) **94h:04003**
Pouzet, Maurice *see* **Milner, E. C., 94d:06010**
Renaud, J.-C. (*with* Fitina, L. F.) On union-closed sets and Conway's sequence. (English summary) **94a:05011**
Saracino, Dan (*with* Wood, Carol) Partially homogeneous partially ordered sets. (English summary) **94b:03066**
Scheepers, Marion Additive properties of sets of real numbers and an infinite game. (English summary) **94e:04003**
— *see also* **Bartoszyński, Tomek; et al., 94k:90167**
Shelah, Saharon *see* **Bartoszyński, Tomek, 94b:03084** *and* **Diestel, Reinhard; et al., 94m:05167**
Spinas, Otmar Cardinal invariants and quadratic forms. (English summary) **94f:03059**
Steprāns, Juris Almost disjoint families of paths in lattice grids. (English summary) **94j:03101**
— *see also* **Diestel, Reinhard; et al., 94m:05167**
Sun, Wen Zhi Stationary cardinals. (English summary) **94i:03103**
Szeptycki, Paul J. Countable metacompactness in Ψ-spaces. **94f:54047**
Takane, Martha *see* **Arocha Pérez, Jorge Luis; et al., 94e:05007**
Tamariz-Mascarúa, Angel *see* **García-Ferreira, Salvador, 94m:54008**
Tasković, Milan R. Antimorphisms of partially ordered sets. (English summary) **94a:06005**
Wehrung, Friedrich La quadrature géométrique continue de cercle. (French summary) [The continuous geometric quadrature of the circle] **94a:54097**
— Baire paradoxical decompositions need at least six pieces. (English summary) **94h:54038**

Witula, Roman One-one and one-one onto choice functions. (English summary)
Wood, Carol *see* **Saracino, Dan, 94b:03066**
Zakrzewski, Piotr *see* **Penconek, Marcin, 94h:04003**

04A25 Axiom of choice and equivalent propositions (Zorn's lemma, etc.) [see also 03E25]

(Mycielski, Jan) *see* **Wagon, Stan, 94g:04005**
Schechter, Eric Two topological equivalents of the axiom of choice. (English summary) **94j:04002**
Tasković, Milan R. New maximal principles. **94a:04001**
Wagon, Stan ★ The Banach-Tarski paradox. (English summary) **94g:04005**
Witula, Roman One-one and one-one onto choice functions. (English summary)

Items with secondary classifications in 04A25

Banaschewski, Bernhard Algebraic closure without choice. (English summary) **94j:03103**
— Supercompactness, products and the axiom of choice. **94i:54048**
Buskes, G. J. H. M. The Hahn-Banach theorem surveyed. **94h:46007**
Hoole, M. R. R. Remarks on Tychonoff's theorem. (English summary) **94b:54025**
Howard, Paul Unions of well-ordered sets. (English summary) **94j:03106**
van Lambalgen, Michiel On Bernays' Platonism and the axiom of choice. **94d:03008**
Pla Carrera, Josep Dedekind and the theory of sets. (Spanish. English summary) **94h:01022**

04A30 Continuum hypothesis, generalized continuum hypothesis [see also 03E50, 54A25]

Aarts, Jan M. The continuum hypothesis. (Dutch) (*see* **94f:00021**)

Items with secondary classifications in 04A30

Gauld, D. B. A strongly hereditarily separable, nonmetrisable manifold. (English summary) **94k:54006**
Komjáth, Péter The master coloring. **94a:05076**
Soukup, Lajos Certain L-spaces under CH. (English summary) **94a:54012**

04A72 Fuzzy sets, fuzzy relations [see also 03E72, 94D05] {For fuzzy versions, see specific sections.}

Achache, Achille (*with* Sangalli, Arturo A. L.) Fuzzy concepts defined via residuated maps. (English summary) **94d:04004**
Adamopoulos, G. I. (*with* Pappis, Costas P.) Some results on the resolution of fuzzy relation equations. (English summary) **94j:04003**
Alsina, Claudi (*with* Trillas, Enric) On uniformly close fuzzy preorders. (English summary) **94a:04002**
Antonsson, Erik K. *see* **Otto, Kevin N.; et al., 94j:04014**
Banerjee, Mohua (*with* Chakraborty, M. K.) A category for rough sets. (English summary) **94j:04004**
Barro, Senén (*with* Marín, Roque; Mira, José; Patón, Alfonso R.) A model and a language for the fuzzy representation and handling of time. (English summary)
Batyrshin, I. Z. (*with* Zakuanov, R. A.) $(N,1)$-lexicographic estimates in the algebra of fuzzy sets. (Russian. Russian summary) (*see* **94f:00017**)
Bhakat, S. K. (*with* Das, Phullendu) (α,β)-fuzzy mappings. (English summary) **94d:04005**
Bien, Zeungnam *see* **Chun, Myung-Geun, 94f:04003**
Bodjanová, Slávka Complement of fuzzy k-partitions. (English summary) **94m:04005**
Boreux, Jean-Jacques (*with* Duckstein, Lucien) A fuzzy approach to the definition of standardized visibility in fog. (English summary)
Borsó, Zsolt An analysis of fuzzy preference modelling. (English summary)
Brink, Chris (*with* Britz, K.; Melton, Austin) A note on fuzzy power relations. (English summary) **94b:04004**
Britz, K. *see* **Brink, Chris; et al., 94b:04004**
Buckley, James J. (*with* Hayashi, Yoichi) Numerical relationships between neural networks, continuous functions, and fuzzy systems. (English summary) **94j:04005**
Butnariu, Dan (*with* Klement, Erich Peter) Triangular norms and some applications to measure and game theory. (English summary) **94a:04003**
Campos, Lourdes (*with* González Muñoz, Antonio) Further contributions to the study of the average value for ranking fuzzy numbers. (English summary) **94j:04006**
Chakraborty, M. K. *see* **Banerjee, Mohua, 94j:04004**
Chen, Hong A fuzzy criterion for biological cancer. (Chinese. English and Chinese summaries)
Chen, Hua Cheng *see* **Cheng, Li Chun**
Cheng, Li Chun (*with* Chen, Hua Cheng) Operations on triangular fuzzy numbers based on the bounded operator sup-$\odot$. (Chinese. English and Chinese summaries)
Cheng, Yang Jin Residue semislopes. (Chinese. English and Chinese summaries) **94k:04001**
Choobineh, F. (*with* Li, Huishen) An index for ordering fuzzy numbers. (English summary) **94d:04006**
Chun, Myung-Geun (*with* Bien, Zeungnam) Neurocomputational approach to solve a convexly combined fuzzy relational equation with generalized connectives. (English summary) **94f:04003**
Das, Phullendu *see* **Bhakat, S. K., 94d:04005**
De Baets, B. (*with* Kerre, E. E.) Fuzzy relational compositions. (English summary) **94j:04007**
Di Nola, Antonio (*with* Kołodziejczyk, Waldemar; Sessa, Salvatore) Transitive solutions of relational equations on finite sets and linear lattices. (English summary) **94i:04004**
Dubois, Didier (*with* Prade, Henri; Sessa, Salvatore) Recent literature.
Duckstein, Lucien *see* **Boreux, Jean-Jacques**
Esteva, Francesc Calculation using fuzzy relations. (Spanish) (*see* **94f:03033**)
Etman, Iman (*with* Morsi, Nehad N.) Interpreting a fuzzy proximity as a measure of proximity. (English summary) **94g:04006**
Faurous, P. (*with* Fillard, J. P.) A new approach to the similarity relations in the fuzzy set theory. (English summary) **94j:04008**
Filev, Dimiter *see* **Yager, Ronald R., 94c:04001**
Fillard, J. P. *see* **Faurous, P., 94j:04008**
Fullér, Róbert (*with* Keresztfalvi, Tibor) A note on t-norm-based operations on LR fuzzy intervals. (English summary) **94d:04007**
García Rosa, Ricardo Fuzzy techniques in the control of processes. (Spanish) (*see* **94f:03033**)
Gil, M. Angeles *see* **Ruiz, M. del Mar, 94g:04007**
González Muñoz, Antonio (*with* Vila, Maria Amparo) An interval-based approach for working with fuzzy numbers. (English summary) (*see* **94g:68011**)
— *see also* **Campos, Lourdes, 94j:04006**
Harman, Blahoslav Sum and product of the modified real fuzzy numbers. (English summary) **94d:04008**
Hayashi, Yoichi *see* **Buckley, James J., 94j:04005**
He, Jia Ru Fuzzy transformations and their generatability properties. (Chinese. English and Chinese summaries) **94b:04005**
Hirota, Kaoru *see* **Ikoma, Norikazu; et al., 94f:04004**; **Kóczy, László T., 94j:04009** *and* **Fuzzy data analysis, 94g:04008**
Horiuchi, Kiyomitsu (*with* Murakami, Haruo) Extension of the concept of mappings using fuzzy sets. (English summary) **94d:04009**
Ikoma, Norikazu (*with* Pedrycz, Witold; Hirota, Kaoru) Estimation of fuzzy relational matrix by using probabilistic descent method. (English summary) **94f:04004**
Ishibuchi, Hisao *see* **Tanaka, Hideo, (94a:00007)**
Jacas, J. (*with* Recasens, J.) A topological approach to some cluster methods. (English summary) (*see* **94g:68011**)
Jones, John Dewey *see* **Yang, Hong Quan; et al., 94d:04017**
Jumarie, Guy Analysis of fuzzy sets by using information theory of distributed deterministic functions. (English summary) **94h:04007**
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04A99 Miscellaneous topics

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— Additions and corrections to: "Terminal coalgebras in well-founded set theory". (English summary) **94m:18006b**
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Milici, C. (*with* Rachin, N.) Continuité de la droite, fondée sur l'ordre linéaire. (French summary) [Continuity of the line based on the linear order] (*see* **94j:00025**)
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05–XX Combinatorics {For finite fields, see 11Txx.}

05–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Kageyama, Sanpei Experimental design: methods and applications: an updated bibliography of books in English. **94e:05001**

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Aigner, Martin ★ Diskrete Mathematik. (German. German summary) [Discrete mathematics] **94g:05001**
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Gries, David (*with* Schneider, Fred B.) ★ A logical approach to discrete math. (English summary) **94j:03002a**
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Xu, Jie Pan ★ Lisan shuxue daolun. (Chinese. Chinese summary) [An introduction to discrete mathematics] **94c:00005**

05–02 Research exposition (monographs, survey articles)

Bagga, Kunwarjit S. (*with* Beineke, Lowell W.; Goddard, Wayne D.; Lipman, Marc J.; Pippert, R. E.) A survey of integrity. (English summary) **94b:05002**
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(Borowiecki, Mieczysław) *see* **Graph theory, 94f:05001**
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(Janson, Svante) *see* **Proceedings: Seminar on Random Graphs and Probabilistic Methods in Combinatorics and Computer Science, 94e:05006**
(Kelmans, A. K.) *see* **Selected topics in discrete mathematics, 94j:05001**
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(Brualdi, Richard A.) *see* **Combinatorial and graph-theoretical problems in linear algebra, 94d:00012**
(Buekenhout, F.) *see* **Finite geometry and combinatorics, 94h:51001**
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(Delest, Marie-Pierre) *see* **Conference: Formal Power Series and Algebraic Combinatorics, 94c:00024**
(Dinitz, Jeffrey H.) *see* **Coding theory, design theory, group theory, 94b:00043** *and* **Contemporary design theory, 94c:05001**
(Doyen, Jean) *see* **Finite geometry and combinatorics, 94h:51001**
(Erdős, Paul) *see* **Combinatorics, Paul Erdős is eighty, 94e:00019**
(Foote, Richard M.) *see* **Coding theory, design theory, group theory, 94b:00043**
(Friedland, Shmuel) *see* **Combinatorial and graph-theoretical problems in linear algebra, 94d:00012**
(Hall, Marshall, Jr.) *see* **Coding theory, design theory, group theory, 94b:00043**
(Hirschfeld, J. W. P.) *see* **Finite geometry and combinatorics, 94h:51001**
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New Brunswick, NJ ★ ARIDAM IV and V. **94d:00019**
Symposium:
Groups and Combinatorics ★ Gunron to kumiawase sūgaku. (Japanese) [Groups and combinatorics] **94a:20003**
Wiesbaden-Naurod ★ Graph-theoretic concepts in computer science. **94d:68004**
Workshop:
Combinatorial and Graph-theoretical Problems in Linear Algebra ★ Combinatorial and graph-theoretical problems in linear algebra. **94d:00012**
Graph-theoretic Concepts in Computer Science ★ Graph-theoretic concepts in computer science. **94d:68004**

05Axx Classical combinatorial problems

Items with secondary classifications in 05Axx

van Lint, Jacobus H. (*with* Wilson, R. M.) ★ A course in combinatorics. (English summary) **94g:05003**
Slade, Gordon Self-avoiding walks.
Wilson, R. M. *see* **van Lint, Jacobus H., 94g:05003**
Zheng, Shi Bai A note on the application of a combinatorial triangle with repetition in indefinite integration. (Chinese. Chinese summary)

05A05 Combinatorial choice problems (subsets, representatives, permutations)

Abrham, Jaromír (*with* Turgeon, Jean M.) Additive permutations of cardinality eight. I. Permutations containing at most three negative elements. (English summary) **94k:05008**
Arocha Pérez, Jorge Luis (*with* Llano, Bernardo; Takane, Martha) The theorem of Philip Hall for vector spaces. **94e:05007**
Ashlock, Daniel A. (*with* Tillotson, Jenett) Construction of small superpermutations and minimal injective superstrings. (English summary) **94k:05009**
Balcza, L. Sum of lengths of inversions in permutations. **94a:05002**
Bier, Thomas Remarks on recent formulas of Wilson and Frankl. (English summary) **94b:05006**
Campbell, Russell B. The apportionment problem. **94k:05010**
Canfield, E. Rodney Matchings in the partition lattice. (English summary) **94e:05008**
Chernoff, William W. Permutations with p^lth roots. (English summary) **94j:05002**
Dale, M. R. T. (*with* Moon, J. W.) The permuted analogues of three Catalan sets. (English summary) **94a:05003**
Guo, Rong *see* **Lü, Yi Zhong, 94g:05005**
Guy, R. K. (*with* Nowakowski, Richard J.) Mousetrap. (English summary) **94k:05011**
Hurkens, C. A. J. (*with* Lovász, László; Schrijver, Alexander; Tardos, Éva) How to tidy up your set-system? **94b:05007**
Jackson, B. W. Universal cycles of k-subsets and k-permutations. (English summary) **94d:05002**
Jevtić, Dušan B. On sum-distinct elements of a power set. (English summary) **94f:05002**
Lee, Shyh Nan *see* **Shih, Mou Hsiang, 94b:05008**
Leung, Joseph Y.-T. (*with* Wei, Wan Di) A comparison theorem for permanents and a proof of a conjecture on (t, m)-families. (English summary) **94i:05002**
Llano, Bernardo *see* **Arocha Pérez, Jorge Luis; et al., 94e:05007**
Lovász, László *see* **Hurkens, C. A. J.; et al., 94b:05007**
Lü, Yi Zhong (*with* Guo, Rong) Generalized solution of Ulam's problem. (English summary) **94g:05005**
Michaels, John G. Arrangements with forbidden positions. **94j:05003**
Moon, J. W. *see* **Dale, M. R. T., 94a:05003**
Nowakowski, Richard J. *see* **Guy, R. K., 94k:05011**
Palmer, Edgar M. (*with* Read, Ronald C.; Robinson, Robert W.) Balancing the n-cube: a census of colorings. (English summary) **94a:05004**
Read, Ronald C. *see* **Palmer, Edgar M.; et al., 94a:05004**
Reiner, Victor Upper binomial posets and signed permutation statistics. (English summary) **94m:05006**
Robinson, Robert W. *see* **Palmer, Edgar M.; et al., 94a:05004**
Roelants van Baronaigien, D. (*with* Ruskey, Frank) Efficient generation of subsets with a given sum. (English summary) **94h:05005**
Ruskey, Frank *see* **Roelants van Baronaigien, D., 94h:05005**
Sali, Attila Some intersection theorems. (English summary) **94e:05009**
Santmyer, Joseph M. Five discordant permutations. (English summary) **94j:05004**
Schrijver, Alexander *see* **Hurkens, C. A. J.; et al., 94b:05007**
Shevelev, V. S. Current theory of the enumeration of permutations with restricted positions. (Russian. Russian summary) **94e:05010**
Shih, Mou Hsiang (*with* Lee, Shyh Nan) Combinatorial formulae for multiple set-valued labellings. **94b:05008**
Sibuya, Masaaki Random partition of a finite set by cycles of permutation. (English summary) **94b:05009**
Takane, Martha *see* **Arocha Pérez, Jorge Luis; et al., 94e:05007**
Tardos, Éva *see* **Hurkens, C. A. J.; et al., 94b:05007**
Tillotson, Jenett *see* **Ashlock, Daniel A., 94k:05009**
Turgeon, Jean M. *see* **Abrham, Jaromír, 94k:05008**
Wang, Jie[3] On the types of permutations. (Chinese. English and Chinese summaries) **94a:05005**
Wei, Wan Di *see* **Leung, Joseph Y.-T., 94i:05002**
Yu, Chang An Counting formulas for some combinatorial problems concerning permutation groups. (Chinese. English and Chinese summaries) **94m:05007**
Zeng, Jiang Énumérations de permutations et J-fractions continues. [Enumerations of permutations and continued J-fractions] **94m:05008**
Zhou, Wan Kun Using the principle of inclusion-exclusion to derive the formula for the number of repeated circular permutations. (Chinese. English and Chinese summaries) **94e:05011**

Items with secondary classifications in 05A05

Akl, Selim G. (*with* Stojmenović, Ivan) A simple optimal systolic algorithm for generating permutations. (English summary) **94c:68081**
Bose, Prosenjit (*with* Buss, Jonathan F.; Lubiw, Anna) Pattern matching for permutations. (English summary) **94k:68075**
Brenti, Francesco Permutation enumeration symmetric functions, and unimodality. (English summary) **94g:05096**

Buss, Jonathan F. *see* **Bose, Prosenjit; et al., 94k:68075**
Clark, Dean S. (*with* Lewis, James T.) Circular avoiding sequences with prescribed sum. (English summary) **94b:11022**
Constantineau, Ivan (*with* Labelle, Jacques) On the construction of permutations of a given type kept fixed by conjugation. (English summary) **94f:05003**
Elekes, G. (*with* Hajnal, András; Komjáth, Péter) Partition theorems for the power set. (English summary) **94e:04006**
Elhage, Hassan (*with* Stojmenović, Ivan) Systolic generation of combinations from arbitrary elements. (English summary) **94c:68080**
Hajnal, András *see* **Elekes, G.; et al., 94e:04006**
Komjáth, Péter *see* **Elekes, G.; et al., 94e:04006**
Labelle, Jacques *see* **Constantineau, Ivan, 94f:05003**
Lewis, James T. *see* **Clark, Dean S., 94b:11022**
Lubiw, Anna *see* **Bose, Prosenjit; et al., 94k:68075**
Moser, W. Cyclic binary strings without long runs of like (alternating) bits. **94a:11032**
Ruskey, Frank (*with* Savage, Carla D.) Hamilton cycles that extend transposition matchings in Cayley graphs of S_n. (English summary) **94a:05094**
Saeli, D. On systems of involutorial permutations with strictly transitive identity and their groups of automorphisms. (Italian. English summary) **94d:20006**
Savage, Carla D. *see* **Ruskey, Frank, 94a:05094**
Stojmenović, Ivan *see* **Elhage, Hassan, 94c:68080** *and* **Akl, Selim G., 94c:68081**
Stonebridge, B. R. Corrigendum: "Derangements of a multiset" [Bull. Inst. Math. Appl. **28** (1992), no. 3, 47–49; MR 93g:05013]. **94b:05016**

05A10 Factorials, binomial coefficients, combinatorial functions [see also 11B65, 33Cxx]

Ando, Shiro *see* **Long, Calvin T., 94b:05010**
Call, Gregory S. (*with* Velleman, Daniel J.) Pascal's matrices. **94a:05006**
Hamilton, Wallace *see* **Shapiro, Louis, 94g:05006**
Horadam, Alwyn F. Generation of Genocchi polynomials of first order by recurrence relations. **94e:05012**
Long, Calvin T. (*with* Ando, Shiro) Another generalization of Gould's Star of David theorem. **94b:05010**
Mantaci, Roberto Binomial coefficients and anti-exceedances of even permutations: a combinatorial proof. (English summary) **94e:05013**
Peele, R. Divisibility patterns for some combinatorial sequences. (English summary) **94a:05007**
Perfect, Hazel Truncations of the Pascal triangle and weighted-product theorems. **94m:05009**
Pickover, Clifford A. On computer graphics and the aesthetics of Sierpiński gaskets formed from large Pascal's triangles. (English summary) (*see* **94b:00013**)
Reiter, Ashley Melia Determining the dimension of fractals generated by Pascal's triangle. **94b:05011**
Shapiro, Louis (*with* Hamilton, Wallace) The Catalan numbers visit the world series. **94g:05006**
Singh, Shambhoo Nath A note on multinomial theorem. (English summary)
Sury, B. Sum of the reciprocals of the binomial coefficients. **94g:05007**
Tsylova, E. G. Probabilistic methods for obtaining asymptotic formulas for generalized Stirling numbers. (Russian) (*see* **94g:62003**)
Velleman, Daniel J. *see* **Call, Gregory S., 94a:05006**

Items with secondary classifications in 05A10

Andrews, George E. (*with* Burge, William H.) Determinant identities. **94i:05005**
Bhatia, Rajendra (*with* Elsner, Ludwig) The q-binomial theorem and spectral symmetry. (English summary) **94g:15007**
Bicknell-Johnson, Marjorie Retrograde renegades and the Pascal connection. II. Repeating decimals represented by sequences of diagonal sums of generalized Pascal triangles appearing from right to left. **94j:11009**
Bollinger, Richard C. Extended Pascal triangles. (English summary) **94a:11025**
Burge, William H. *see* **Andrews, George E., 94i:05005**
Chen, William Y. C. (*with* Stanley, Richard P.) Derangements on the n-cube. (English summary) **94k:05012**
Cigler, J. Über die Anzahl erzeugender Mengen in endlichen Vektorräumen. [On the number of generating sets in finite vector spaces] **94g:05008**
Dale, M. R. T. (*with* Moon, J. W.) The permuted analogues of three Catalan sets. (English summary) **94a:05003**
Dowling, Thomas A. Catalan numbers. **94j:11020**
Dulucq, Serge (*with* Penaud, Jean-Guy) Cordes, arbres et permutations. (English and French summaries) [Chords, trees and permutations] **94e:05017**
Eggleton, Roger B. (*with* Fraenkel, Aviezri S.; Simpson, R. Jamie) Beatty sequences and Langford sequences. (English summary) **94a:11018**
Elsner, Ludwig *see* **Bhatia, Rajendra, 94g:15007**
Fraenkel, Aviezri S. *see* **Eggleton, Roger B.; et al., 94a:11018**
Gupta, Radha Charan Varāhamihira's calculation of ${}^nC_r$ and the discovery of Pascal's triangle. **94f:01011**
Hilton, Peter John (*with* Pedersen, Jean) Catalan-Zahlen und Wege in einem ganzzahligen Gitter. (German summary) [Catalan numbers and paths in an integral lattice] **94g:05002**
Howard, F. T. Multinomial and q-binomial coefficients modulo 4 and modulo p. **94c:11019**
McIntosh, Richard J. Recurrences for alternating sums of powers of binomial coefficients. (English summary) **94e:11015**
Moon, J. W. *see* **Dale, M. R. T., 94a:05003**
Najar, Rudolph M. Recursions and Pascal-type triangles. **94e:05025**
Nicolas, Jean-Louis An integral representation for Eulerian numbers. **94d:11010**
Pedersen, Jean *see* **Hilton, Peter John, 94g:05002**
Penaud, Jean-Guy *see* **Dulucq, Serge, 94e:05017**
Rutkowski, Aleksander The number of strictly increasing mappings of fences. (English summary) **94e:06003**
Simpson, R. Jamie *see* **Eggleton, Roger B.; et al., 94a:11018**
Smith, John Howard Combinatorial congruences from p-subgroups of the symmetric group. (English summary) **94g:20006**
Stanley, Richard P. *see* **Chen, William Y. C., 94k:05012**
Sury, B. A curious polynomial identity. **94h:11012**
Temme, Nico M. Asymptotic estimates of Stirling numbers. (English summary) **94b:11019**

05A15 Exact enumeration problems, generating functions [see also 33Cxx, 33Dxx]

Ahmad, Shakil (*with* Ghosh, D. K.) A note on generalised subsets. **94b:05012**
Arquès, Didier (*with* Jacques, Isabelle) Classification des cartes pointées de genre 1 et relation fonctionnelle associée. (English summary) [Classification of rooted mappings of genus 1 and associated functional relation] **94e:05014**
Berstel, Jean (*with* Pocchiola, Michel) A geometric proof of the enumeration formula for Sturmian words. (English summary) **94m:05010**
Brawley, Joel V. (*with* Jamison, Robert E.) Counting transparent strips of numbers. (English summary) **94m:05011**
Cao, Ru Cheng Some counting problems for key codewords. (Chinese. English and Chinese summaries)
Chen, William Y. C. (*with* Stanley, Richard P.) Derangements on the n-cube. (English summary) **94k:05012**
— Induced cycle structures of the hyperoctahedral group. (English summary) **94e:05015**
Chiricota, Yves (*with* Strehl, Volker) Inversion of polynomial species and Jacobian conjecture. (English summary) **94e:05016**
Cigler, J. Über die Anzahl erzeugender Mengen in endlichen Vektorräumen. [On the number of generating sets in finite vector spaces] **94g:05008**
Constantineau, Ivan (*with* Labelle, Jacques) On the construction of permutations of a given type kept fixed by conjugation. (English summary) **94f:05003**
Doran, William F., IV A connection between alternating sign matrices and totally symmetric self-complementary plane partitions. (English summary) **94j:05005**
Dulucq, Serge (*with* Penaud, Jean-Guy) Cordes, arbres et permutations. (English and French summaries) [Chords, trees and permutations] **94e:05017**
Fitina, L. F. *see* **Renaud, J.-C., 94a:05011**
Fu, Zhong Liang The number of Latin rectangles. (Chinese. Chinese summary) **94a:05008**
Ghosh, D. K. *see* **Ahmad, Shakil, 94b:05012**
Godinho, Pedro Henrique On a classical theorem of combinatorial analysis and the reflexion principle. (Portuguese. English and Portuguese summaries) **94e:05018**
Gross, Jonathan L. Burnside-Pólya counting methods. **94i:05003**
Haase, Herman Hyperspaces and Fibonacci numbers. **94c:05005**
Haiman, Mark D. Noncommutative rational power series and algebraic generating functions. (English summary) **94d:05003**
Hornegger, Joachim (*with* Pirastu, Roberto) Die Speziestheorie und die Implementation ihrer Zykelindexreihen in Scratchpad II. (German summary) [The theory of species and the implementation of their cycle index series in Scratchpad II] **94d:05004**
Jacques, Isabelle *see* **Arquès, Didier, 94e:05014**
Jamison, Robert E. *see* **Brawley, Joel V., 94m:05011**
Koda, Yasunori The numbers of finite lattices and finite topologies. (English summary) **94m:05012**
Krattenthaler, C. (*with* Mohanty, S. G.) On lattice path counting by major index and descents. (English summary) **94e:05019**
— Generating functions for shifted plane partitions. (English summary) **94b:05013**
Kulkarni, Devadatta M. Counting of path-like objects in a rectangular array. (English summary) **94b:05014**
Kut'in, A. M. On the enumeration of finite partially ordered sets. (Russian) **94a:05009**
Labelle, Gilbert Sur la symétrie et l'asymétrie des structures combinatoires. (English and French summaries) [On the symmetry and asymmetry of combinatorial structures] **94j:05006**
Labelle, Jacques On pairs of noncrossing generalized Dyck paths. (English summary) **94f:05004**
— *see also* **Constantineau, Ivan, 94f:05003**
Lalanne, J.-C. Une involution sur les chemins de Dyck. (English and French summaries) [An involution on Dyck paths] **94a:05010**
— Polyominos parallélogrammes à franges et fonctions de Bessel. (English and French summaries) [Parallelogram polyominos with borders and Bessel functions] **94c:05006**
Lando, S. K. (*with* Zvonkin, A. K.) Plane and projective meanders. (English and French summaries) **94i:05004**
Laziun, V. (*with* Neamţu, N. N.; Tudor, Gheorghe M.) Sur un problème d'analyse combinatoire. (French summary) [On a problem of combinatorial analysis] (*see* **94j:00025**)
Lin, Dong Dai (*with* Liu, Mu Lan) The equivalence classes of LR arrays. (English summary) **94c:05007**
Liu, Mu Lan *see* **Lin, Dong Dai, 94c:05007**
Mehra, K. L. (*with* Rama Krishnaiah, Y. S.; Rao, M. Sudhakara) A dominance result for self-dual lattice paths and applications. (English summary) **94g:05009**
Mohanty, S. G. *see* **Krattenthaler, C., 94e:05019**
Neamţu, N. N. *see* **Laziun, V.; et al., (94j:00025)**
Niederhausen, Heinrich The enumeration of integer sequences with a given number of colored records. (English summary) **94h:05006**
Ochiai, Shōji Note on a value which relates to the enumeration of finite topologies. (English summary) **94f:05005**
Peart, Paul (*with* Woodson, Leon) Triple factorization of some Riordan matrices. **94e:05020**
Penaud, Jean-Guy *see* **Dulucq, Serge, 94e:05017**
Pirastu, Roberto *see* **Hornegger, Joachim, 94d:05004**
Pocchiola, Michel *see* **Berstel, Jean, 94m:05010**
Prodinger, Helmut How to select a loser. (English summary) **94g:05010**
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Rao, M. Sudhakara *see* **Mehra, K. L.; et al., 94g:05009**
Renaud, J.-C. (*with* Fitina, L. F.) On union-closed sets and Conway's sequence. (English summary) **94a:05011**

Sachkov, V. N. Asymptotics of the number of t-minimal coverings of a set. (Russian. Russian summary) **94d:05005**
Shallit, Jeffrey On the maximum number of distinct factors of a binary string. (English summary) **94b:05015**
Shevelev, V. S. Some problems in the theory of enumeration of permutations with restricted positions. (Russian) **94a:05012**
Simion, Rodica (*with* Stanton, Dennis) Specializations of generalized Laguerre polynomials. (English summary) **94m:05013**
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Stonebridge, B. R. Corrigendum: "Derangements of a multiset" [Bull. Inst. Math. Appl. **28** (1992), no. 3, 47–49; MR 93g:05013]. **94b:05016**
Strehl, Volker *see* **Chiricota, Yves, 94e:05016**
Tudor, Gheorghe M. *see* **Laziun, V.; et al., (94j:00025)**
Wagner, David G. Enumeration of functions from posets to chains. (English summary) **94c:05008**
Wei, Wan Di (*with* Xu, Ju Yong) Cycle index of direct product of permutation groups and number of equivalence classes of subsets of Z_v. (English summary) **94k:05013**
Woodson, Leon *see* **Peart, Paul, 94e:05020**
Xu, Ju Yong *see* **Wei, Wan Di, 94k:05013**
Yang, Julia S. Asymmetric structures, types, and indicator polynomials. (English summary) **94f:05006**
Zvonkin, A. K. *see* **Lando, S. K., 94i:05004**

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Andrews, George E. On the difference of successive Gaussian polynomials. (English summary) **94f:11010**
Barcucci, Elena (*with* Pinzani, Renzo; Sprugnoli, Renzo) Directed column-convex polyominoes by recurrence relations. (English summary) **94e:05077**
Bhattacharya, Bhargab B. *see* **Sen Gupta, S.; et al., 94m:52019**
Böhm, Walter (*with* Mohanty, S. G.) The transient solution of $M/M/1$ queues under (M, N)-policy. A combinatorial approach. (English summary) **94c:60152**
Bonin, Joseph E. (*with* Shapiro, Louis; Simion, Rodica) Some q-analogues of the Schröder numbers arising from combinatorial statistics on lattice paths. (English summary) **94e:05029**
Bousquet-Mélou, Mireille (*with* Viennot, Xavier Gérard) Empilements de segments et q-énumération de polyominos convexes dirigés. (English summary) [Stacks of segments and q-enumeration of directed convex polyominoes] **94a:05045**
Breckenridge, J. W. (*with* Varadarajan, K.; Wehrhahn, K. H.) Chains, multichains and Möbius numbers. (English summary) **94j:06006**
Carvalho, Juliana Temes Oliveira S-function series revisited. (English summary) **94k:05213**
Chaunier, Claude (*with* Lygerös, Nik) Le nombre de posets à isomorphie près ayant 12 éléments. (English summary) [The number of 12-element posets up to isomorphism] **94h:06006**
Chen, William Y. C. Context-free grammars, differential operators and formal power series. (English summary) **94m:68106**
Choi, Seul Hee (*with* Gouyou-Beauchamps, Dominique) Enumeration of generalized Young tableaux with bounded height. (English summary) **94h:05093**
Chorneyko, I. Z. (*with* Mohanty, S. G.; Sen, Kanwar) Enumeration of restricted three-dimensional lattice paths with fixed numbers of turns and an application. (English summary) **94g:60123**
Delest, Marie-Pierre (*with* Fedou, J. M.) Enumeration of skew Ferrers diagrams. (English and Italian summaries) **94b:05223**
Diaconis, Persi W. (*with* Fulton, William) A growth model, a game, an algebra, Lagrange inversion, and characteristic classes. (English summary) **94d:60105**
Dong, Feng Ming (*with* Liu, Yan Pei) Counting rooted near-triangulations on the sphere. (English summary) **94j:05064**
Dowling, Thomas A. Catalan numbers. **94j:11020**
Drmota, Michael A bivariate asymptotic expansion of coefficients of powers of generating functions. (English summary) **94k:05014**
Fedou, J. M. *see* **Delest, Marie-Pierre, 94b:05223**
Françon, Jean Fractions continues q-analogiques pour certaines familles de permutations et de partitions. (English and French summaries) [q-analogous continued fractions for certain families of permutations and partitions] **94a:05014**
Fulton, William *see* **Diaconis, Persi W., 94d:60105**
Gao, Zhi-Cheng The number of degree restricted maps on general surfaces. (English summary) **94j:05008**
Gouyou-Beauchamps, Dominique *see* **Choi, Seul Hee, 94h:05093**
Grabiner, David J. (*with* Magyar, Peter) Random walks in Weyl chambers and the decomposition of tensor powers. (English summary) **94m:05202**
Graham, John J. Generalised Witt vectors. (English summary) **94e:13047**
Grassl, Richard M. Euler numbers and skew-hooks. **94e:11016**
Guo, Quan Lin Application of the generalized Möbius inversion formula to the computation of pairwise interactions in crystals. (Chinese. English and Chinese summaries) **94d:11106**
Hansen, Jennie C. (*with* Schmutz, Eric) How random is the characteristic polynomial of a random matrix? (English summary) **94j:05009**
Higgins, Peter M. Combinatorial results for semigroups of order-preserving mappings. **94a:06002**
Hilton, Peter John (*with* Pedersen, Jean) Catalan-Zahlen und Wege in einem ganzzahligen Gitter. (German summary) [Catalan numbers and paths in an integral lattice] **94g:05002**
Hock, J. L. (*with* McQuistan, R. B.) Exact, composite ternary nearest-neighbor degeneracies. (English summary) **94e:82018**
Klimenko, V. A. Summation of closed non-self-intersecting diagrams on a hexagonal lattice. (Russian. English and Russian summaries) **94h:82007**
Knopfmacher, Arnold (*with* Ridley, J. N.) Reciprocal sums over partitions and compositions. (English summary) **94g:11111**
Konvalina, John (*with* Liu, Yi-Hsin) Circular subsets without q-separation and powers of Lucas numbers. **94e:11012**
Kulkarni, Devadatta M. Hilbert polynomial of a certain ladder-determinantal ideal. (English summary) **94e:13021**
Lalanne, J.-C. q-Bessel et polyominos. (French summary) [q-Bessel and polyominos] **94c:05022**
Lee, Shyh Nan *see* **Shih, Mou Hsiang, 94b:05008**
Leung, Joseph Y.-T. (*with* Wei, Wan Di) A comparison theorem for permanents and a proof of a conjecture on (t, m)-families. (English summary) **94i:05002**
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Liu, Yi-Hsin *see* **Konvalina, John, 94e:11012**
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Magyar, Peter *see* **Grabiner, David J., 94m:05202**
McQuistan, R. B. *see* **Hock, J. L., 94e:82018**
Modak, M. R. Combinatorial meaning of the coefficients of a Hilbert polynomial. (English summary) **94e:13022**
Mohanty, S. G. *see* **Böhm, Walter, 94c:60152** *and* **Chorneyko, I. Z.; et al., 94g:60123**
Mukhopadhyaya, K. *see* **Sen Gupta, S.; et al., 94m:52019**
Palmer, Edgar M. (*with* Read, Ronald C.; Robinson, Robert W.) Balancing the n-cube: a census of colorings. (English summary) **94a:05004**
Pedersen, Jean *see* **Hilton, Peter John, 94g:05002**
Pinzani, Renzo *see* **Barcucci, Elena; et al., 94e:05077**
Proctor, Robert A. Reflection and algorithm proofs of some more Lie group dual pair identities. (English summary) **94f:05147**
— A bideterminant proof of a product identity for plane partitions with symmetries. (English summary) **94g:05103**
Read, Ronald C. *see* **Palmer, Edgar M.; et al., 94a:05004**
Reiner, Victor Upper binomial posets and signed permutation statistics. (English summary) **94m:05006**
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Robinson, Robert W. *see* **Palmer, Edgar M.; et al., 94a:05004**
Roelants van Baronaigien, D. (*with* Ruskey, Frank) Efficient generation of subsets with a given sum. (English summary) **94h:05005**
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Rutkowski, Aleksander The formula for the number of order-preserving self-mappings of a fence. (English summary) **94a:06011**
Santmyer, Joseph M. Five discordant permutations. (English summary) **94j:05004**
Schmutz, Eric *see* **Hansen, Jennie C., 94j:05009**
Sen, Kanwar *see* **Chorneyko, I. Z.; et al., 94g:60123**
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Wei, Wan Di *see* **Leung, Joseph Y.-T., 94i:05002**
Yu, Chang An Counting formulas for some combinatorial problems concerning permutation groups. (Chinese. English and Chinese summaries) **94m:05007**
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Zhou, Wan Kun Using the principle of inclusion-exclusion to derive the formula for the number of repeated circular permutations. (Chinese. English and Chinese summaries) **94e:05011**
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05A16 Asymptotic enumeration

Baryshnikov, Yuliy M. (*with* Stadje, Wolfgang) On sets of integers with prescribed gaps. (English summary) **94j:05007**
Drmota, Michael A bivariate asymptotic expansion of coefficients of powers of generating functions. (English summary) **94k:05014**
Flajolet, Philippe (*with* Soria, Michèle) General combinatorial schemas: Gaussian limit distributions and exponential tails. (English summary) **94e:05021**
Gao, Zhi-Cheng (*with* Richmond, L. Bruce) Central and local limit theorems applied to asymptotic enumeration. IV. Multivariate generating functions. (English summary) **94b:05017**
— The number of degree restricted maps on general surfaces. (English summary) **94j:05008**
Grabner, Peter J. (*with* Prodinger, Helmut; Tichy, Robert F.) Asymptotic analysis of a class of functional equations and applications. (English summary) **94m:05014**
Hansen, Jennie C. (*with* Schmutz, Eric) How random is the characteristic polynomial of a random matrix? (English summary) **94j:05009**
Jackson, D. M. (*with* Richmond, L. Bruce) The asymptotic behaviour of the number of three-connected triangulations of the disk, with a reflective symmetry in a line. (English summary) **94b:05018**
Kemp, Rainer Balanced ordered trees. (English summary) **94j:05010**
Masol, V. I. The asymptotics of the number of k-dimensional subspaces of minimal weight over a finite field. (English summary) **94j:05011**
Pavlov, A. I. On the number of equivalence classes of (0, 1)-matrices. (Russian) **94j:05012**
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Stadje, Wolfgang *see* **Baryshnikov, Yuliy M., 94j:05007**
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Bališńska, Krystyna T. (*with* Quintas, Louis V.) Big cycles in random edge maximal 2-graphs. (English summary) **94m:05169**
Bollobás, Béla (*with* Jin, Guo Ping) A partition problem of Erdős for integers. (English summary) **94k:11025**
Flajolet, Philippe *see* **Hoshi, Mamoru, 94b:68040**
Gao, Zhi-Cheng A pattern for the asymptotic number of rooted maps on surfaces. (English summary) **94k:05095**
Godbole, Anant P. (*with* Schaffner, Andrew A.) Improved Poisson approximations for word patterns. (English summary) **94d:60015**
Grounds, W. V. (*with* Silberger, D. M.) How many primitive words? (English summary) **94m:20115**
Hoshi, Mamoru (*with* Flajolet, Philippe) Page usage in a quadtree index. (English summary) **94b:68040**
Jin, Guo Ping *see* **Bollobás, Béla, 94k:11025**
Kuzyurin, N. N. On the automorphism conjecture for products of ordered sets. (English summary) **94a:06010**
Lando, S. K. (*with* Zvonkin, A. K.) Plane and projective meanders. (English and French summaries) **94i:05004**
Lu, T. J. (*with* Read, Ronald C.; Palmer, Edgar M.) The enumeration of trees with certain local restrictions. (English summary) **94m:05062**
Meller, J. *see* **Wybourne, B. G., 94a:53044**
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Sachkov, V. N. Asymptotics of the number of t-minimal coverings of a set. (Russian. Russian summary) **94d:05005**
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Spiegel, Eugene Automorphisms of incidence algebras. **94g:06003**
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Temme, Nico M. Asymptotic estimates of Stirling numbers. (English summary) **94b:11019**
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05A17 Partitions of integers [see also 11P81, 11P82, 11P83]

Chu, Wen Chang (*with* Raina, R. K.) Some summation formulae over the set of partitions. (English summary) **94c:05009**
Day, William H. E. (*with* Mirkin, B. G.) On the existence of constrained partitions of integers. (English summary) **94e:05022**
McAvaney, Kevin (*with* Robertson, Jack; Webb, William A.) Ramsey partitions of integers and fair divisions. (English summary) **94e:05023**
Mirkin, B. G. *see* **Day, William H. E., 94e:05022**
Polyakov, Yurii I. Geometric representation of partitions. (Russian. English and Russian summaries) **94c:05010**
Raina, R. K. *see* **Chu, Wen Chang, 94c:05009**
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Shi, Jian Yi Skew tableaux, lattice paths, and bounded partitions. (English summary) **94c:05011**
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Wu, Qi Qi A descending identity for $P(n,k)$. (Chinese. Chinese summary) **94m:05015**

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Andrews, George E. On the difference of successive Gaussian polynomials. (English summary) **94f:11010**
— (*with* Bessenrodt, C.; Olsson, Jørn B.) Partition identities and labels for some modular characters. (English summary) **94k:11119**
Bessenrodt, C. *see* **Andrews, George E.; et al., 94k:11119**
Brenti, Francesco Permutation enumeration symmetric functions, and unimodality. (English summary) **94g:05096**
Burge, William H. Restricted partition pairs. (English summary) **94f:11109**
Doran, William F., IV A connection between alternating sign matrices and totally symmetric self-complementary plane partitions. (English summary) **94j:05005**
Krattenthaler, C. Generating functions for shifted plane partitions. (English summary) **94b:05013**
Lewis, Richard P. (*with* Santa-Gadea, Nicolas) On the rank and the crank modulo 4 and 8. **94c:11102**
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Proctor, Robert A. A bideterminant proof of a product identity for plane partitions with symmetries. (English summary) **94g:05103**
Rawlings, Don Limit formulas for q-exponential functions. (English summary) **94m:05019**
Sagan, Bruce E. Combinatorial proofs of hook generating functions for skew plane partitions. (English summary) **94g:05102**
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Sellers, James Congruences involving generalized Frobenius partitions. (English summary) **94c:11103**
Sibuya, Masaaki Random partition of a finite set by cycles of permutation. (English summary) **94b:05009**
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05A18 Partitions of sets

Gargano, Luisa (*with* Körner, János; Vaccaro, Ugo) Sperner capacities. (English summary) **94e:05024**
Körner, János *see* **Gargano, Luisa; et al., 94e:05024**
Sarti, Stefano D. Remarks on umbral evaluations of chromatic polynomials. (English summary) **94m:05016**
Vaccaro, Ugo *see* **Gargano, Luisa; et al., 94e:05024**

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Chaimovich, Mark Fast exact and approximate algorithms for k-partition and scheduling independent tasks. (English summary) **94b:90030**
Kříž, Igor All trapezoids are Ramsey. (English summary) **94b:05203**

05A19 Combinatorial identities

Ahlswede, Rudolf F. (*with* Cai, Ning) A generalization of the AZ identity. (English summary) **94g:05011**
Andrews, George E. (*with* Burge, William H.) Determinant identities. **94i:05005**
Burge, William H. *see* **Andrews, George E., 94i:05005**
Cai, Ning *see* **Ahlswede, Rudolf F., 94g:05011**
Chu, Wen Chang A transition method for two classes of combinatorial identities. (Chinese. English and Chinese summaries) **94g:05012**
Clarke, Robert J. (*with* Sved, Marta) Derangements and Bell numbers. **94k:05016**
Lengyel, Tamás A combinatorial identity and the World Series. (English summary) **94a:05013**
Najar, Rudolph M. Recursions and Pascal-type triangles. **94e:05025**
Nishimoto, Katsuyuki On the infinite sum $Q_{m,n}=\sum_{k=1}^{\infty}1/k(k+m)(k+m+1)\cdots(k+m+n)$ $(n\in\mathbb{Z}^+\cup\{0\},\ m\in\mathbb{Z}^+)$ (a serendipity in fractional calculus). (English summary) **94e:05026a**
— (*with* Tu, Shih T'ung) On the infinite sums $\sum_{n=1}^{\infty}(n-1)!2^{n-1}/\prod_{k=0}^{n}(2k+3)$ and $\sum_{n=1}^{\infty}(n-1)!(n+1)2^{n-1}/\prod_{k=0}^{n+1}(2k+3)$ (a serendipity in fractional calculus). (English summary) **94e:05026b**
— (*with* Tu, Shih T'ung) On infinite sum $R_{m,\beta}=(-1)^m\sum_{k=1}^{\infty}((-1)^k\cdot(m+k-1)!/(m-1)!k)\cdot\Gamma(-m-k-\beta)/\Gamma(-\beta)$ (serendipity in fractional calculus). (English summary) **94e:05026c**
Okada, Soichi Alternating sign matrices and some deformations of Weyl's denominator formulas. (English summary) **94e:05027**
Peng, Xiao Ning *see* **Shu, Jian Xian, 94i:05006**
Shi, He On the Li Shan-Lan identity. **94h:05007**
Shu, Jian Xian (*with* Peng, Xiao Ning) Probabilistic and analytic methods for the proof of some identities and inequalities. (Chinese) **94i:05006**
Sved, Marta *see* **Clarke, Robert J., 94k:05016**
Székely, László A. A note on identities and cube partitions. **94m:05017**
Tang, You Hua Combinatorial identities of a new type. I. (Chinese. English and Chinese summaries) **94e:05028**
Traves, William N. A remarkable integer identity. (English summary)
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Xu, Li Zhi Finding some strange identities via Faa di Bruno's formula. (English and Chinese summaries) **94f:05007**
Zeilberger, Doron Identities in search of identity. (English summary) **94m:05018**

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Blecksmith, Richard (*with* Brillhart, John; Gerst, Irving) A fundamental modular identity and some applications. (English summary) **94c:11100**
Bollinger, Richard C. Extended Pascal triangles. (English summary) **94a:11025**
Brillhart, John *see* **Blecksmith, Richard; et al., 94c:11100**
Buck, Marshall W. (*with* Coley, Raymond A.; Robbins, David P.) A generalized Vandermonde determinant. (English summary) **94e:15010**
Capparelli, Stefano Relations for generating functions associated to an infinite-dimensional Lie algebra. (Italian summary) **94a:17018**
Chu, Wen Chang (*with* Raina, R. K.) Some summation formulae over the set of partitions. (English summary) **94c:05009**
— The lattice path method and classical partition identities. (Chinese. English summary) **94d:33013**
Coker, C. A problem related to Foulkes's conjecture. (English summary) **94g:20019**
Coley, Raymond A. *see* **Buck, Marshall W.; et al., 94e:15010**
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Gross, Kenneth I. (*with* Richards, Donald St. P.) Constant term identities and hypergeometric functions on spaces of Hermitian matrices. (English summary) **94j:33029**
Lilly, Glenn M. (*with* Milne, Stephen C.) The C_l Bailey transform and Bailey lemma. (English summary) **94m:33013**
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Raina, R. K. *see* **Chu, Wen Chang, 94c:05009**
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Shi, Jian Yi Skew tableaux, lattice paths, and bounded partitions. (English summary) **94c:05011**
Sury, B. A curious polynomial identity. **94h:11012**

Todorov, Pavel G. Explicit solutions of certain homogeneous linear recurrence relations with constant coefficients. (English and Serbo-Croatian summaries) **94f:39003**
Wang, Jie[3] On the types of permutations. (Chinese. English and Chinese summaries) **94a:05005**

05A20 Combinatorial inequalities

Wang, Qi Yi *see* **Yan, Xi Ren, 94j:05013**
Yan, Xi Ren (*with* Wang, Qi Yi) The number of elements in a usable binary cyclic sequence and undulatory element distribution. (Chinese. English and Chinese summaries) **94j:05013**

Items with secondary classifications in 05A20

Barrett, Wayne W. *see* **Johnson, Charles Royal, 94f:15017**
Bourgain, Jean (*with* Kahn, Jeffry N.; Kalai, Gil; Katznelson, Yitzhak; Linial, Nathan) The influence of variables in product spaces. (English summary) **94g:05091**
Feigin, B. L. (*with* Frenkel, Edward) Coinvariants of nilpotent subalgebras of the Virasoro algebra and partition identities. **94g:17054**
Frenkel, Edward *see* **Feigin, B. L., 94g:17054**
Füredi, Zoltán (*with* Kleitman, Daniel J.) The minimal number of zero sums. (English summary) **94h:11008**
Holzman, Ron (*with* Kleitman, Daniel J.) On the product of sign vectors and unit vectors. (English summary) **94e:60007**
Johnson, Charles Royal (*with* Barrett, Wayne W.) Determinantal inequalities for positive definite matrices. (English summary) **94f:15017**
Kahn, Jeffry N. *see* **Bourgain, Jean; et al., 94g:05091**
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Kleitman, Daniel J. *see* **Holzman, Ron, 94e:60007** *and* **Füredi, Zoltán, 94h:11008**
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Pach, János On the game of Misery. **94d:90086**
Rinott, Yosef (*with* Saks, Michael) Correlation inequalities and a conjecture for permanents. (English summary) **94m:60039**
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05A30 q-calculus and related topics [see also 03Dxx]

Bonin, Joseph E. (*with* Shapiro, Louis; Simion, Rodica) Some q-analogues of the Schröder numbers arising from combinatorial statistics on lattice paths. (English summary) **94e:05029**
Françon, Jean Fractions continues q-analogiques pour certaines familles de permutations et de partitions. (English and French summaries) [q-analogous continued fractions for certain families of permutations and partitions] **94a:05014**
Lalanne, J.-C. Sur une involution sur les chemins de Dyck. (English and French summaries) [On an involution of Dyck paths] **94e:05030**
Leroux, Pierre *see* **de Médicis, Anne, 94g:05013a** *and* **94g:05013b**
de Médicis, Anne (*with* Leroux, Pierre) A unified combinatorial approach for q- (and p, q-) Stirling numbers. (English summary) **94g:05013a**
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Rawlings, Don Limit formulas for q-exponential functions. (English summary) **94m:05019**
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— On Ramanujan's empirical calculation for the Rogers-Ramanujan identities. **94d:33012**
— (*with* Ekhad, Shalosh B.; Zeilberger, Doron) A short proof of Jacobi's formula for the number of representations of an integer as a sum of four squares. **94b:11015**
— On the difference of successive Gaussian polynomials. (English summary) **94f:11010**
Chu, Wen Chang (*with* Xu, Li Zhi) On some classes of inverse series relations and their applications. (English summary) **94k:05017**
Cigler, J. A new q-analog of Stirling numbers. (English summary) **94h:11014**
Ekhad, Shalosh B. *see* **Andrews, George E.; et al., 94b:11015**
Fan, Hong Yi[1] *see* **Jing, Si Cong, 94c:81093**
Fedou, J. M. Enumeration of skew Ferrers diagrams and basic Bessel functions. (English summary) **94h:11096**
Friedman, Jane E. An application of Ehrenpreis's basis method to the Rogers-Ramanujan identities. **94g:33015**
Howard, F. T. Multinomial and q-binomial coefficients modulo 4 and modulo p. **94c:11019**
Jing, Si Cong (*with* Fan, Hong Yi[1]) A new completeness relation in the q-deformed two-mode Fock space. (English summary) **94c:81093**
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Lalanne, J.-C. Une involution sur les chemins de Dyck. (English and French summaries) [An involution on Dyck paths] **94a:05010**
Proctor, Robert A. A bideterminant proof of a product identity for plane partitions with symmetries. (English summary) **94g:05103**
Xu, Li Zhi *see* **Chu, Wen Chang, 94k:05017**
Zeilberger, Doron Identities in search of identity. (English summary) **94m:05018**
— *see also* **Andrews, George E.; et al., 94b:11015**

05A40 Umbral calculus

Brini, Andrea (*with* Huang, Rosa Q.; Teolis, Antonio G. B.) The umbral symbolic method for supersymmetric tensors. **94a:05015**
Chiricota, Yves (*with* Labelle, Gilbert) Familles de solutions combinatoires de $y' = 1 + y^2$ et d'équations différentielles autonomes. (English and French summaries) [Families of combinatorial solutions of $y' = 1 + y^2$ and of autonomous differential equations] **94f:05008**
Chu, Wen Chang (*with* Xu, Li Zhi) On some classes of inverse series relations and their applications. (English summary) **94k:05017**
Huang, Rosa Q. *see* **Brini, Andrea; et al., 94a:05015**
Labelle, Gilbert *see* **Chiricota, Yves, 94f:05008**
Roman, Steven The harmonic logarithms and the binomial formula. **94i:05007**
Sun, Xie Hua On Rota's problem of the explicit representation for umbral operators. (English summary) **94g:05014**
— New characteristics of some polynomial sequences in combinatorial theory. (English summary) **94b:05020**
Teolis, Antonio G. B. *see* **Brini, Andrea; et al., 94a:05015**
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Janeczko, Stanisław Covariant symplectic geometry of binary forms and singularities of systems of rays. (English summary) **94i:58020**
Kholodov, A. N. Formal coalgebras and applications. (English summary) **94f:16058**
Morava, Jack Some examples of Hopf algebras and Tannakian categories. **94f:16059**
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Verde-Star, Luis Polynomial sequences of interpolatory type. **94d:41008**

05A99 None of the above, but in this section

Ajtai, Miklós (*with* Linial, Nathan) The influence of large coalitions. (English summary) **94k:05018**
Akiyama, Jin (*with* Hosono, K.; Urabe, M.) Some combinatorial problems. (English summary) **94d:05006**
Allouche, Jean-Paul Note on the cyclic towers of Hanoi. (English summary) **94k:05019**
Belov, A. Ya. (*with* Okhitin, S. V.) On a combinatorial problem. (Russian) **94k:05020**
Bergelson, Vitaly (*with* Deuber, Walter A.; Hindman, N.) Rado's theorem for finite fields. **94e:05031**
Bezrukov, S. L. (*with* Gronau, Hans-Dietrich O. F.) A Kruskal-Katona type theorem. (English summary) **94i:05008**
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van de Craats, Jan Puzzles, permutations and parities. (Dutch) (*see* **94a:51002**)
Deuber, Walter A. *see* **Bergelson, Vitaly; et al., 94e:05031**
Ding, Guoli Clutters with $\tau_2 = 2\tau$. (English summary) **94j:05014**
Ghier, Laurence Double occurrence words with the same alternance graph. (English summary) **94f:05009**
Gronau, Hans-Dietrich O. F. *see* **Bezrukov, S. L., 94i:05008**
Guo, Rong *see* **Lü, Yi Zhong, 94k:05022**
Hindman, N. *see* **Bergelson, Vitaly; et al., 94e:05031**
Hosono, K. *see* **Akiyama, Jin; et al., 94d:05006**
Jones, John Dewey Orderly currencies.
— *see also* **Maurer, Stephen B.**
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Klein, Carole S. (*with* Minsker, Steven) The super Towers of Hanoi problem: large rings on small rings. (English summary) **94e:05032**
Leont'ev, V. K. Recognition of binary words from their fragments. (Russian) **94k:05021**
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Propp, James Further ant-ics. **94m:05020**
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Schachtel, Gabriel *see* **Morris, Macdonald; et al., 94e:05033**
Stivaros, Constantine The W.I.M.P. optimization problem. (English summary) **94k:05023**
Tverberg, Helge On a coin tossing problem by G. Bennett. (English summary) **94b:05021**
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Allouche, Jean-Paul (*with* Shallit, Jeffrey) The ring of k-regular sequences. **94c:11021**
Burov, G. A. Symbolic combinatorial calculus and its applications in problems of linear algebra and the identification of dynamical systems. (Russian. Russian summary)
Chen, Rong Jaye *see* **Wu, Jer Shyan, 94a:68043**
Conway, J. H. On numbers and games. **94m:01040**
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Howie, John M. Semigroups and combinatorics. **94f:20124**
Keener, James P. The Perron-Frobenius theorem and the ranking of football teams. (English summary) **94a:15012**
Kozen, Dexter (*with* Zaks, Shmuel) Optimal bounds for the change-making problem. (English summary) **94k:68159**
Krishnan, Mangala S. *see* **Temme, F. P.; et al., 94f:81186**
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Maltby, R. A smallest-fibre-size to poset-size ratio approaching $\frac{1}{15}$. **94f:06004**
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Shallit, Jeffrey *see* **Allouche, Jean-Paul, 94c:11021**
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Yan, Xi Ren (*with* Wang, Qi Yi) A direct method to generate usable cyclic sequences. (Chinese. English and Chinese summaries) **94k:11029**
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Zhu, Shi Xin A new algorithm for generating binary de Bruijn sequences. (Chinese. English and Chinese summaries) **94m:94014**

05Bxx Designs and configurations {For applications of design theory, see 94C30.}

Dinitz, Jeffrey H. (*with* Stinson, Douglas R.) A brief introduction to design theory. (*see* **94c:05001**)
Stinson, Douglas R. *see* **Dinitz, Jeffrey H., (94c:05001)**

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05B05 Block designs [see also 51E05, 62K10]

Ajoodani-Namini, S. (*with* Khosrovshahi, G. B.; Vatan, Farrokh; Widel, M.) The spectrum of support sizes of BIB designs with $v = 10$ and $k = 5$. (English summary) **94e:05034**
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— (*with* Mavron, V. C.) Biplanes and Singer groups. **94j:05016**
Arlinghaus, William C. Block designs and Latin squares. **94k:05026**
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— (*with* Phelps, Kevin T.; Rodger, C. A.; Zhu, Lie[1]) Constructions of perfect Mendelsohn designs. **94b:05023**
— (*with* Yin, Jian Xing; Zhu, Lie[1]) On the existence of perfect Mendelsohn designs with $k = 7$ and λ even. (English summary) **94d:05007**
— (*with* Wei, Rui Xia; Yin, Jian Xing; Mahmoodi, A.) Existence of DBIBDs with block size six. (English summary) **94b:05024**
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— Quasi-symmetric designs, codes, quadrics, and hyperplane sections. (English summary) **94m:05030**
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— (*with* Rosa, Alexander; Znám, Štefan) The spectrum of maximal partial Steiner triple systems. (English summary) **94f:05019**
— (*with* Mahmoodian, Ebadollah S.) Support sizes of sixfold triple systems. (English summary) **94i:05014**
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— (*with* Zeitler, Herbert) Hyperovals in Steiner triple systems. **94e:05051**
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Rosa, Alexander *see* **Colbourn, Charles J.; et al., 94f:05019** *and* **(94c:05001)**
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Stinson, Douglas R. *see* **Vanstone, Scott A.; et al., 94g:05018**
Sullivan, Frances E. *see* **Key, J. D., 94e:05050**
Vanstone, Scott A. (*with* Stinson, Douglas R.; Schellenberg, P. J.; et al.) Hanani triple systems. (English summary) **94g:05018**
Zeitler, Herbert Die Catania-Aufgabe und ihre Entwicklung. [The Catania task and its evolution] **94k:05034**
— *see also* **Quattrocchi, Gaetano, 94e:05051**
Znám, Štefan *see* **Colbourn, Charles J.; et al., 94f:05019**

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Arlinghaus, William C. Block designs and Latin squares. **94k:05026**
Guetzow, Andreas J. Semi-Boolean SQS-skeins. (English summary) **94e:05040**
Wallis, W. D. (*with* Zhang, Guo-Hui) On the partition and coloring of a graph by cliques. (English summary) **94f:05059**
Zhang, Guo-Hui *see* **Wallis, W. D., 94f:05059**

05B10 Difference sets (number-theoretic, group-theoretic, etc.) [see also 11B13]

Arasu, K. T. (*with* Davis, James Andrew; Jedwab, Jonathan; Sehgal, Surinder K.) New constructions of Menon difference sets. (English summary) **94f:05021**
Chadjiconstantinidis, Stathis (*with* Chadjipadelis, Theodore) Further results on supplementary difference sets and optimal cyclic complex linear designs. (English summary) **94f:05022**
Chadjipadelis, Theodore *see* **Chadjiconstantinidis, Stathis, 94f:05022**
Chan, W. K. Necessary conditions for Menon difference sets. (English summary) **94c:05015**
Davis, James Andrew *see* **Arasu, K. T.; et al., 94f:05021**
Gao, Xu Hong (*with* Wei, Wan Di) On nonabelian group difference sets. (English summary) **94b:05027**
Grošek, Otokar (*with* Jajcay, Robert) Generalized difference sets on an infinite cyclic semigroup. (English summary) **94d:05015**
Jajcay, Robert *see* **Grošek, Otokar, 94d:05015**
Jedwab, Jonathan *see* **Arasu, K. T.; et al., 94f:05021**
Jungnickel, Dieter (*with* Pott, Alexander) Two results on difference sets. **94f:05023**
— Difference sets. (*see* **94c:05001**)
— On Lander's multiplier theorem for difference lists. (English summary) **94d:05016**
— On affine difference sets. (English summary) **94g:05019**
Kraemer, Robert G. Proof of a conjecture on Hadamard 2-groups. (English summary) **94e:05052**
Leung, Ka Hin (*with* Ma, Siu Lun; Tan, Victor) Abelian divisible difference sets with multiplier -1. **94b:05028**
Liebler, Robert A. (*with* Smith, Kenneth W.) On difference sets in certain 2-groups. (English summary) **94h:05013**
Ma, Siu Lun On subsets of partial difference sets. (English summary) **94j:05026**
— *see also* **Leung, Ka Hin; et al., 94b:05028**
Pott, Alexander A generalization of a construction of Lenz. (English summary) **94d:05017**
— *see also* **Jungnickel, Dieter, 94f:05023**
Qiu, Wei Sheng Proving the multiplier theorem using the representation theory of groups. (English summary) **94k:05035**
Rogers, Douglas G. On the BKT inequality and improved bounds for perfect systems of difference sets. (English summary) **94m:05036**
— Improved bounds for perfect systems of difference sets. (English summary) **94b:05029**
Sehgal, Surinder K. *see* **Arasu, K. T.; et al., 94f:05021**
Smith, Kenneth W. *see* **Liebler, Robert A., 94h:05013**
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Tang, Chang Jie *see* **Wu, Zi Hua, 94k:05036**
Wei, Wan Di *see* **Gao, Xu Hong, 94b:05027**
Wu, Zi Hua (*with* Tang, Chang Jie) An application of incidence matrices of cyclic near difference sets. (Chinese. English and Chinese summaries) **94k:05036**
Xiang, Qing Some results on -1 multiplier of difference lists. (English summary) **94a:05024**
Xu, Ju Yong A class of relative difference sets associated with a pair of subgroups. (Chinese. English and Chinese summaries) **94j:05027**

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Arasu, K. T. Cyclic subplanes of cyclic affine planes. (English summary) **94d:05023**
— (*with* Mavron, V. C.) Biplanes and Singer groups. **94j:05016**
Brand, Neal (*with* Sutinuntopas, Somporn) One-factors and the existence of affine designs. (English summary) **94m:05021**
Chan, Wai-Kiu (*with* Siu, Man Keung; Ma, Siu Lun) Nonexistence of certain perfect arrays. (English summary) **94k:05038**
Davis, James Andrew An exponent bound for relative difference sets in p-groups. (English summary) **94a:20098**
— (*with* Jedwab, Jonathan) A note on new semi-regular divisible difference sets. (English summary) **94f:20046**
— New constructions of divisible designs. (English summary) **94f:05031**
De Resmini, Marialuisa J. (*with* Jungnickel, Dieter) Strongly regular semi-Cayley graphs. (English summary) **94d:05150**
Hayasaka, T. (*with* Saito, Sadao; Rogers, Douglas G.) Further results on irregular, critical perfect systems of difference sets. II. Systems without splits. (English summary) **94b:05039**
Jackson, Wen-Ai (*with* Wild, Peter) Relations between two perfect ternary sequence constructions. (English summary) **94e:11019**
— A characterization of Hadamard designs with $\mathrm{SL}(2,q)$ acting transitively. (English summary) **94h:51010**
Jedwab, Jonathan (*with* Mitchell, Chris; Piper, Fred; Wild, Peter) Perfect binary arrays and difference sets. (English summary) **94m:05040**
— *see also* **Davis, James Andrew, 94f:20046**
Jungnickel, Dieter *see* **De Resmini, Marialuisa J., 94d:05150**
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Mitchell, Chris *see* **Jedwab, Jonathan; et al., 94m:05040**
Piper, Fred *see* **Jedwab, Jonathan; et al., 94m:05040**
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Siu, Man Keung *see* **Chan, Wai-Kiu; et al., 94k:05038**
Sutinuntopas, Somporn *see* **Brand, Neal, 94m:05021**
Wei, Wan Di (*with* Xu, Ju Yong) Cycle index of direct product of permutation groups and number of equivalence classes of subsets of Z_n. (English summary) **94k:05013**
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Xu, Ju Yong *see* **Wei, Wan Di, 94k:05013**

05B15 Orthogonal arrays, Latin squares, Room squares

Abel, R. J. R. (*with* Todorov, D. T.) Four MOLS of orders 20, 30, 38, and 44. (English summary) **94g:05020**
Bao, Xiao Min A constructing method of a class of SIDS(n). (English summary) **94e:05053**
Bedford, David Construction of orthogonal Latin squares using left neofields. (English summary) **94c:05016**
Bennett, F. E. (*with* Zhu, Lie[1]) Conjugate-orthogonal Latin squares and related structures. (*see* **94c:05001**)
Bhagwandas Orthogonal arrays—their generalisations. (English summary) **94e:05054**
Bier, Thomas (*with* Rogers, Douglas G.) Balanced magic rectangles. (English summary) **94e:05055**
Cameron, Peter J. How few entries determine any Latin square? **94k:05037**
Chan, Wai-Kiu (*with* Siu, Man Keung; Ma, Siu Lun) Nonexistence of certain perfect arrays. (English summary) **94k:05038**
Chen, Mu Rong *see* **Sun, Rong Guo**
Chen, Rui Chen (*with* Yin, Xin Chun; Jiang, Sheng) Homogeneous designs of cyclic Latin square type of order 14. (Chinese. English and Chinese summaries) **94j:05028**
Chopra, D. V. Contributions to the existence of arrays with two levels. (English summary) **94m:05037**
Christofi, C. Enumerating 4×5 and 5×6 double Youden rectangles. (English summary) **94j:05029**
Dawson, Edward Pyle (*with* Mahmoodian, Ebadollah S.; Rahilly, Alan) Orthogonal arrays and ordered threshold schemes. (English summary) **94i:05015**
Dénes, József (*with* Mullen, Gary L.) Additional conjectures concerning magic squares. (English summary) **94j:05030**
Dinitz, Jeffrey H. (*with* Stinson, Douglas R.) Room squares and related designs. (*see* **94c:05001**)
— (*with* Stinson, Douglas R.) A few more Room frames. **94b:05030**
Du, Bei Liang A few more resolvable spouse-avoiding mixed-doubles round robin tournaments. (English summary) **94f:05024**
— New bounds for pairwise orthogonal diagonal Latin squares. (English summary) **94a:05025**
— (*with* Zhu, Lie[1]) The existence of incomplete room squares. (English summary) **94e:05056**
— Orthogonal diagonal Latin squares with orthogonal diagonal subsquares. (English summary) **94m:05038**
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Evans, Anthony B. The existence of complete mappings of finite groups. (English summary) **94e:05057**
— Mutually orthogonal Latin squares based on linear groups. (English summary) **94e:05058**
Glynn, David G. A geometrical representation theory for orthogonal arrays. (English summary) **94m:05039**
Hanafi, A. R. Pandiagonal magic squares of even orders. (English summary)
Hedayat, A. S. (*with* Stufken, John) Some mathematical results on incomplete orthogonal arrays. (English summary) **94e:05059**
Honkala, Iiro S. A Graham-Sloane type construction for s-surjective matrices. (English summary) **94a:05026**
Huang, Ta Yuan (*with* Laurent, Monique) $(s, r; \mu)$-nets and alternating forms graphs. (English summary) **94b:05031**
Hurlbert, Glenn (*with* Isaak, Garth) On the de Bruijn torus problem. (English summary) **94j:05031**
Isaak, Garth *see* **Hurlbert, Glenn, 94j:05031**
Jacroux, Mike A note on constructing magic rectangles of even order. (English summary)
Janssen, Jeannette C. M. The Dinitz problem solved for rectangles. (English summary) **94b:05032**
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Kao, Chin Mei A note on the construction of large set of Latin squares with one entry in common. (English summary) **94d:05018**
Karzel, Helmut (*with* Maxson, Carl J.) Affine MDS-codes on groups. (English summary) **94k:05039**
Kuriki, Shinji On existence and construction of balanced arrays. (English summary) **94b:05033**
Laurent, Monique *see* **Huang, Ta Yuan, 94b:05031**
Laywine, Charles F. (*with* Mullen, Gary L.) Mutually orthogonal frequency hypercubes and affine geometries. (English summary) **94m:05041**
Li, Xiu Fen *see* **Lu, Xian, 94m:05042**

Lu, Xian (*with* Li, Xiu Fen) The structure of magic squares of even order. (Chinese. English and Chinese summaries) **94m:05042**
Ma, Siu Lun *see* **Chan, Wai-Kiu; et al., 94k:05038**
Mahmoodian, Ebadollah S. *see* **Dawson, Edward Pyle; et al., 94i:05015**
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Mullen, Gary L. A series of combinatorial constructions motivated by Raj Chandra Bose. **94e:05060**
— (*with* Purdy, David) Some data concerning the number of Latin rectangles. **94e:05061**
— *see also* **Dénes, József, 94j:05030** *and* **Laywine, Charles F., 94m:05041**
Nazarok, A. V. On the existence of multidimensional Kirkman hypercubes of a certain class. (Ukrainian. English and Russian summaries) **94k:05040**
Piper, Fred *see* **Jedwab, Jonathan; et al., 94m:05040**
Ponnuswamy, K. N. (*with* Subbarayan, A.; Mukhopadhyay, A. C.) On the existence of orthogonal Latin squares with symmetric structural property. (English summary) **94d:05019**
Preece, D. A. A set of double Youden rectangles of size 8×15. (English summary) **94f:05025**
— Double Youden rectangles—an update with examples of size 5×11. (English summary) **94k:05041**
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Stinson, Douglas R. (*with* Zhu, Lie[1]) Towards the spectrum of Room squares with subsquares. (English summary) **94b:05034**
— (*with* Zhu, Lie[1]) On the existence of certain SOLS with holes. (English summary) **94m:05043**
— *see also* **Dinitz, Jeffrey H., 94b:05030** *and* (**94c:05001**)
Stufken, John *see* **Hedayat, A. S., 94e:05059**
Subbarayan, A. *see* **Ponnuswamy, K. N.; et al., 94d:05019**
Sun, Rong Guo (*with* Chen, Mu Rong) Existence of classical magic D rectangles of even orders. (Chinese. English and Chinese summaries)
Teirlinck, Luc Orthogonal one-factorizations, ordered designs and related structures. (English summary) **94f:05026**
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Alspach, Brian (*with* Heinrich, Katherine; Liu, Gui Zhen) Orthogonal factorizations of graphs. (*see* **94c:05001**)
Arlinghaus, William C. Block designs and Latin squares. **94k:05026**
Brüsel, H. (*with* Kleinau, M.) On the number of feasible schedules of the open-shop-problem—an application of special Latin rectangles. (English summary) **94i:90053**
Dougherty, Steven Nets and their codes. (English summary) **94e:51012**
Evans, Anthony B. ★ Orthomorphism graphs of groups. **94e:05004**
Feng, Gong Ji (*with* Tong, Zi Rong; Xin, Zhu Ding) Dual matrices of order 5^n satisfying the strong magic condition, and magic squares. (Chinese. English and Chinese summaries)
Fu, Zhong Liang The number of Latin rectangles. (Chinese. Chinese summary) **94a:05008**
Hedayat, A. S. (*with* Pu, Kewei; Stufken, John) On the construction of asymmetrical orthogonal arrays. (English summary) **94f:62119**
Heinrich, Katherine *see* **Alspach, Brian; et al.,** (**94c:05001**)
Kleinau, M. *see* **Brüsel, H., 94i:90053**
Lamken, E. R. (*with* Vanstone, Scott A.) Existence results for doubly near resolvable $(v, 3, 2)$-BIBDs. (English summary) **94e:05045**
Laywine, Charles F. A counterexample to a conjecture relating complete sets of frequency squares and affine geometries. (English summary) **94h:51019**
Lindner, Charles C. (*with* Rodger, C. A.) A partial $m = (2k + 1)$-cycle system of order n can be embedded in an m-cycle system of order $(2n + 1)m$. (English summary) **94h:05017**
Liu, Gui Zhen *see* **Alspach, Brian; et al.,** (**94c:05001**)
Niederreiter, Harald Orthogonal arrays and other combinatorial aspects in the theory of uniform point distributions in unit cubes. (English summary) **94f:11070**
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Ray-Chaudhuri, D. K. (*with* Singhi, N. M.) Some recent results on t-designs. (English summary) **94d:05030**
Rodger, C. A. *see* **Lindner, Charles C., 94h:05017**
Singhi, N. M. *see* **Ray-Chaudhuri, D. K., 94d:05030**
Smith, Jonathan D. H. Loop transversals to linear codes. (English summary) **94g:94034**
Stufken, John *see* **Hedayat, A. S.; et al., 94f:62119**
Tong, Zi Rong *see* **Feng, Gong Ji; et al.**
Vanstone, Scott A. *see* **Lamken, E. R., 94e:05045**
Xin, Zhu Ding *see* **Feng, Gong Ji; et al.**
Zeitler, Herbert Steiner-Systeme und Stein-Quasigruppen. (German summary) [Steiner systems and Stein quasigroups] **94m:05033**

05B20 Matrices (incidence, Hadamard, etc.)

Baartmans, A. H. (*with* Lin, Cantian; Shiue, Peter Jau-Shyong) On a criterion for symmetric Hadamard matrices. (English summary) **94m:05044**
Balasubramanian, Krishnan Characterization of Hadamard matrices. (English summary) **94e:05062**
Brock, Bradley W. A new construction of circulant GH$(p^2; Z_p)$. (English summary) **94e:05063**
Brualdi, Richard A. (*with* Csima, J.) Butterfly embedding proof of a theorem of König. **94b:05035**
de Caen, D. (*with* Godsil, Chris D.; Royle, Gordon F.) On the p-rank of incidence matrices and a bound of Bruen and Ott. (English summary) **94a:05027**
Conforti, Michele (*with* Rao, M. R.) Testing balancedness and perfection of linear matrices. (English summary) **94f:05027**
Cornuéjols, Gérard (*with* Novick, Beth) Ideal 0, 1 matrices. (English summary) **94j:05032**
Craigen, R. Complex Golay sequences. (English summary) **94m:05045**
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Dawson, Jeremy E. *see* **de Launey, Warwick, 94k:05043**
Doković, Dragomir Ž. Ten new orders for Hadamard matrices of skew type. (English summary) **94b:05036**
— Williamson matrices of order $4n$ for $n = 33, 35, 39$. (English summary) **94e:05064**
— Good matrices of orders 33, 35 and 127 exist. (English summary) **94e:05065**
Godsil, Chris D. *see* **de Caen, D.; et al., 94a:05027**
Ito, Noboru Note on Hadamard groups of quadratic residue type. **94i:05016**
Jimbo, Masakazu *see* **Mishima, Miwako, 94k:05044**
Kharaghani, H. A construction for Hadamard matrices. (English summary) **94j:05033**
— (*with* Seberry, Jennifer) The excess of complex Hadamard matrices. (English summary) **94f:05028**
Kimura, Hiroshi[1] Classification of Hadamard matrices of order 28 with Hall sets. (English summary) **94m:05046**
Koukouvinos, Christos (*with* Seberry, Jennifer) Construction of new Hadamard matrices with maximal excess and infinitely many new SBIBD $(4k^2, 2k^2 + k, k^2 + k)$. **94d:05020**
— (*with* Seberry, Jennifer) Some new weighing matrices using sequences with zero autocorrelation function. (English summary) **94h:05014**
— (*with* Seberry, Jennifer) On G-matrices. (English summary) **94d:05021**
— (*with* Seberry, Jennifer) On weighing matrices. (English summary) **94a:05028**
— Construction of some new weighing matrices. (English summary) **94f:05029**
de Launey, Warwick Circulant GH$(p^2; Z_p)$ exist for all primes p. (English summary) **94a:05029**
— (*with* Dawson, Jeremy E.) An asymptotic result on the existence of generalised Hadamard matrices. (English summary) **94k:05043**
Li, Shi Qun The discovery of a 3-dimensional Hadamard matrix of order 6. (Chinese. English summary) **94a:05030**
Lin, Cantian (*with* Wallis, W. D.) On the circulant Hadamard matrix conjecture. (English summary) **94c:05018**
— (*with* Wallis, W. D.; Zhu, Lie[1]) Equivalence classes of Hadamard matrices of order 32. (English summary) **94m:05047**
— *see also* **Baartmans, A. H.; et al., 94m:05044**
Mavron, V. C. *see* **Shoaib-ud-Din, 94d:05022**
Meisner, David Benjamin On a construction of regular Hadamard matrices. (English and Italian summaries) **94e:05066**
Mishima, Miwako (*with* Jimbo, Masakazu) A series of identities for the coefficients of inverse matrices on a Hamming scheme. (English summary) **94k:05044**
Novick, Beth *see* **Cornuéjols, Gérard, 94j:05032**
Ohmori, Hiroyuki Classification of weighing matrices of order 13 and weight 9. (English summary) **94g:05021**
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Royle, Gordon F. *see* **de Caen, D.; et al., 94a:05027**
Seberry, Jennifer (*with* Yamada, Mieko) Hadamard matrices, sequences, and block designs. (*see* **94c:05001**)
— (*with* Zhang, Xian Mo) Regular sets of matrices and applications. (English summary) **94f:05030**
— (*with* Yamada, Mieko) On the multiplication theorems of Hadamard matrices of generalized quaternion type using M-structures. (English summary) **94a:05031**
— *see also* **Koukouvinos, Christos, 94a:05028**; **94d:05020**; **94d:05021**; **Kharaghani, H., 94f:05028** *and* **Koukouvinos, Christos, 94h:05014**
Shiue, Peter Jau-Shyong *see* **Baartmans, A. H.; et al., 94m:05044**
Shoaib-ud-Din (*with* Mavron, V. C.) Generalised Hadamard matrices and nets. (English summary) **94d:05022**
Tarakanov, V. E. On the properties of the substitution operation in classes of (0, 1)-matrices. (Russian. Russian summary) **94g:05022**
Wallis, W. D. Hadamard matrices. (English summary) **94h:05015**
— *see also* **Lin, Cantian, 94c:05018** *and* **94m:05047**
Yamada, Mieko *see* **Seberry, Jennifer, 94a:05031** *and* (**94c:05001**)
Zhang, Xian Mo Semi-regular sets of matrices and applications. (English summary) **94a:05032**
— *see also* **Seberry, Jennifer, 94f:05030**
Zhang, Ying Shan A simple method of constructing BIB designs—the Hadamard product. (Chinese. English summary)
Zhu, Lie[1] *see* **Lin, Cantian; et al., 94m:05047**

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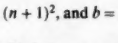
Albrecht, Ulrich F. (*with* Goeters, H. Pat; Megibben, Charles) Zero-one matrices with an application to abelian groups. (English summary) **94k:15011**
Berardi, L. (*with* Bichara, A.) Blocking sets in symmetric 2-(15, 7, 3) designs. (English summary) **94a:05016**
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Bier, Thomas Remarks on recent formulas of Wilson and Frankl. (English summary) **94b:05006**
Chen, William Y. C. Integral matrices with given row and column sums. (English summary) **94e:15041**
Chernyak, A. A. (*with* Chernyak, Zh. A.) Joint realization of (0, 1) matrices revisited. (English summary) **94d:15016**
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Eschenbach, Carolyn A. (*with* Hall, Frank J.; Johnson, Charles Royal) Self-inverse sign patterns. (English summary) **94e:15004**
Goeters, H. Pat *see* **Albrecht, Ulrich F.; et al., 94k:15011**
Hall, Frank J. *see* **Eschenbach, Carolyn A.; et al., 94e:15004**

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Kharaghani, H. Block Golay sequences with applications. (English summary) **94a:94008**
Liebler, Robert A. (*with* Smith, Kenneth W.) On difference sets in certain 2-groups. (English summary) **94h:05013**
Megibben, Charles *see* **Albrecht, Ulrich F.; et al., 94k:15011**
Mukhopadhyay, A. C. Generalized weighing matrices, SGDDs possessing dual property and related configurations. (English summary) **94d:05028**
Rasmussen, Lars Eilstrup Approximating the permanent: a simple approach. (English summary) **94k:15006**
Smith, Kenneth W. *see* **Liebler, Robert A., 94h:05013**
Szekeres, George The graph algebra of skew Hadamard determinants. **94e:15014**
Tuzar, Antonín Remark to a problem on 0-1 matrices. **94c:15024**
Wang, Lu Qun Homomorphisms of matrix semigroups. I. (Chinese. English and Chinese summaries) **94b:20060**

05B25 Finite geometries [see also 51D20, 51Exx]

Arasu, K. T. Cyclic subplanes of cyclic affine planes. (English summary) **94d:05023**
Glynn, David G. Every finite symmetric hereditary geometry is complementary. (English summary) **94h:05016**
Gropp, Harald On symmetric spatial configurations. (English summary) **94m:05048**
Grünbaum, Branko Astral (n_k) configurations.
Markvartová, Jitka A parallelogram configuration condition in nets. (English summary) **94m:05049**
Metsch, Klaus Linear spaces with few lines. **94b:05037**

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Seress, Ákos *see* **Lovász, László, 94a:05042**
Srinivasan, Murali K. *see* **Peled, Uri N., 94a:05043**
Vertigan, Dirk (*with* Whittle, Geoff) Recognizing polymatroids associated with hypergraphs. (English summary) **94m:05057**
Wagner, Donald K. *see* **Coullard, Collette R.; et al., 94i:05021**
Wang, Kun Ren Symmetrical polymatroids and the greedy algorithm. (Chinese. English and Chinese summaries) **94k:05050**
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— *see also* **Mo, Zhi Wen, 94e:05075**
Welsh, Dominic J. A. *see* **Oxley, James G., 94e:05076**
Wenzel, Walter Pfaffian forms and Δ-matroids. (English summary) **94h:05021**
Whittle, Geoff Duality in polymatroids and set functions. (English summary) **94b:05046**
— *see also* **Oxley, James G., 94i:05024; 94k:05049** *and* **Vertigan, Dirk, 94m:05057**
Wynn, Henry P. *see* **Naiman, Daniel Q., 94h:05020**
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Amado, Lígia (*with* Barcia, Paulo) Matroidal relaxations for 0-1 knapsack problems. (English summary) **94i:90079**
Bachem, Achim (*with* Dress, Andreas W. M.; Wenzel, Walter) Five variations on a theme by Gyula Farkas. **94c:90057**
Barcia, Paulo *see* **Amado, Lígia, 94i:90079**
Birkett, S. H. On the special properties of graphic and co-graphic bondgraphs. (English summary) **94j:05102**
Björner, Anders The homology and shellability of matroids and geometric lattices. **94a:52030**
Bland, R. G. (*with* Ko, Chun Wa; Sturmfels, Bernd) A nonextremal Camion basis. (English summary) **94k:15001**
Bonin, Joseph E. Automorphism groups of higher-weight Dowling geometries. (English summary) **94k:51005**
Broersma, H. J. (*with* Li, Xue Liang) The connectivity of the basis graph of a branching greedoid. **94b:05127**
Brylawski, Thomas H. (*with* Ziegler, Günter M.) Topological representation of dual pairs of oriented matroids. (English summary) **94g:52015**
Burkard, Rainer E. (*with* Yao, En Yu) Erratum: "Constrained partitioning problems" [Discrete Appl. Math. **28** (1990), no. 1, 21–34; MR 92b:90218]. **94h:90062**
Catlin, Paul A. (*with* Grossman, Jerrold W.; Hobbs, Arthur M.; Lai, Hong-Jian) Fractional arboricity, strength, and principal partitions in graphs and matroids. (English summary) **94g:05070**
Chen, Dong Sheng (*with* Wan, Zhe Xian) An arrangement in orthogonal geometry over finite field of char = 2. (English summary) **94g:51022**
Colbourn, Charles J. (*with* El-Mallah, Ehab S.) Reliable assignments of processors to tasks and factoring on matroids. (English summary) **94d:68016**
Cordovil, R. (*with* Moreira, M. L.) A homotopy theorem on oriented matroids. (English summary) **94d:52016**
Diamond, James S. (*with* Mendelzon, Alberto O.) Cycle structure of edge labelled graphs. (English summary) **94e:05159**
Ding, Guoli Stable sets versus independent sets. (English summary) **94c:05062**
Dress, Andreas W. M. (*with* Terhalle, W.) A combinatorial approach to p-adic geometry. (English summary) **94e:51008**
— *see also* **Bachem, Achim; et al., 94c:90057**
El-Mallah, Ehab S. *see* **Colbourn, Charles J., 94d:68016**
Goddyn, Luis A. Cones, lattices and Hilbert bases of circuits and perfect matchings. (English summary) **94e:05191**
Grossman, Jerrold W. *see* **Catlin, Paul A.; et al., 94g:05070**
Helman, Paul (*with* Moret, Bernard M. E.; Shapiro, Henry D.) An exact characterization of greedy structures. (English summary) **94h:68090**
Hobbs, Arthur M. *see* **Catlin, Paul A.; et al., 94g:05070**
Jaeger, François On the Kauffman polynomial of planar matroids. (English summary) **94d:57016**
Jamshy, Ury (*with* Tarsi, Michael) Short cycle covers and the cycle double cover conjecture. (English summary) **94a:05119**
Jégou, Philippe (*with* Vilarem, Marie-Catherine) On some partial line graphs of a hypergraph and the associated matroid. (English summary) **94a:05158**
Ko, Chun Wa *see* **Bland, R. G.; et al., 94k:15001**
Kordecki, Wojciech On the rank of a random submatroid of projective geometry. **94b:51014**
Lai, Hong-Jian *see* **Catlin, Paul A.; et al., 94g:05070**
Li, Xue Liang *see* **Broersma, H. J., 94b:05127**
Lonc, Zbigniew Majorization, packing, covering and matroids. (English summary) **94f:05039**
Mendelzon, Alberto O. *see* **Diamond, James S., 94e:05159**
Mněv, N. E. (*with* Richter-Gebert, Jürgen) Two constructions of oriented matroids with disconnected extension space. (English summary) **94f:52018**
— (*with* Ziegler, Günter M.) Combinatorial models for the finite-dimensional Grassmannians. (English summary) **94g:52016**
Moreira, M. L. *see* **Cordovil, R., 94d:52016**
Moret, Bernard M. E. *see* **Helman, Paul; et al., 94h:68090**
Murota, Kazuo Mixed matrices: irreducibility and decomposition. (English summary) **94e:15057**
— On the Smith normal form of structured polynomial matrices. II. (English summary) **94i:15009**
Richter-Gebert, Jürgen Oriented matroids with few mutations. (English summary) **94f:52019**
— Combinatorial obstructions to the lifting of weaving diagrams. (English summary) **94f:52020**
— *see also* **Mněv, N. E., 94f:52018**
Schmidt, Stefan E. On meet-complements in Cohn geometries. (English summary) **94f:51010**
Schwärzler, Werner (*with* Welsh, Dominic J. A.) Knots, matroids and the Ising model. (English summary) **94c:57019**
Shapiro, Henry D. *see* **Helman, Paul; et al., 94h:68090**
da Silva, Ilda P. F. On fillings of $2N$-gons with rhombi. (English summary) **94f:52021**
Simonis, Juriaan Configurations and computers. (Dutch) **94c:51007**
Sturmfels, Bernd (*with* Ziegler, Günter M.) Extension spaces of oriented matroids. (English summary) **94i:52015**
— *see also* **Bland, R. G.; et al., 94k:15001**
Tarsi, Michael *see* **Jamshy, Ury, 94a:05119**
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Ziegler, Günter M. What is a complex matroid? (English summary) **94j:52026**
— *see also* **Brylawski, Thomas H., 94g:52015; Mněv, N. E., 94g:52016** *and* **Sturmfels, Bernd, 94i:52015**

05B40 Packing and covering [see also 11H31, 52C15, 52C17]

Allston, J. L. *see* **Stanton, R. G.; et al., 94k:05055**
Assaf, Ahmed M. (*with* Shalaby, Nabil; Singh, L. P. S.) Packing designs with block size 5 and index 2: the case v even. (English summary) **94b:05047**
— (*with* Singh, L. P. S.) Packing pairs by quintuples with index 2: v odd, $v \not\equiv 13 \pmod{20}$. (English summary) **94k:05051**
Chee, Yeow Meng (*with* Ling, San) Projective covering designs. (English summary) **94b:05048**
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Lamken, E. R. (*with* Mills, William H.) Resolvable coverings. (English summary) **94k:05052**
Limaye, N. B. (*with* Sane, Sharad S.; Wirmani-Prasad, A.) The exact covering number $g(1, 6, 11)$. (English summary) **94d:05035**
Ling, San *see* **Chee, Yeow Meng, 94b:05048**
Lonc, Zbigniew Majorization, packing, covering and matroids. (English summary) **94f:05039**
Milici, Salvatore *see* **Quattrocchi, Gaetano, 94b:05049**
Mills, William H. (*with* Mullin, Ronald C.) Coverings and packings. (*see* **94c:05001**)
— *see also* **Lamken, E. R., 94k:05052**
Mullin, Ronald C. *see* **Mills, William H., (94c:05001)**
Phillips, N. C. K. (*with* Wallis, W. D.) Persistent pairs in single change covering designs. (English summary) **94k:05053**
Quattrocchi, Gaetano (*with* Milici, Salvatore) Repeated blocks in maximum packing of triples with index 2. (English summary) **94b:05049**
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Sachkov, V. N. Random minimal coverings of sets. (Russian. Russian summary) **94c:05021**
Sánchez García, Miguel (*with* Sobrón Fernández, Ma. I.; Espinel Febles, Ma. C.) Facets of the covering polytope with coefficients in {0, 1, 2, 3}. (Spanish. English and Spanish summaries) **94k:05054**
Sane, Sharad S. *see* **Limaye, N. B.; et al., 94d:05035**
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Singh, L. P. S. *see* **Assaf, Ahmed M.; et al., 94b:05047** *and* **94k:05051**
Sobrón Fernández, Ma. I. *see* **Sánchez García, Miguel; et al., 94k:05054**
Stanton, R. G. Packings in enneads. **94h:05022**
— (*with* Allston, J. L.; Ruet d'Auteuil, E. A.) The behaviour of small packings. (English summary) **94k:05055**
Wallis, W. D. *see* **Phillips, N. C. K., 94k:05053**
Wiedemann, Doug Cyclic difference covers through 133. (English summary) **94a:05044**
Wirmani-Prasad, A. *see* **Limaye, N. B.; et al., 94d:05035**

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Alon, Noga (*with* Füredi, Zoltán) Covering the cube by affine hyperplanes. (English summary) **94a:52039**
Bálint, Vojtech A packing problem and geometrical series. (English summary) **94b:52031**
Conforti, Michele (*with* Rao, M. R.) Testing balancedness and perfection of linear matrices. (English summary) **94f:05027**
Dewess, G. An existence theorem for packing problems with implications for the computation of optimal machine schedules. (English summary) **94i:90055**
Etzion, Tuvi Partitions for quadruples. (English summary) **94j:05034**
Füredi, Zoltán *see* **Alon, Noga, 94a:52039**
Mohar, Bojan A polynomial time circle packing algorithm. (English summary) **94h:52038**
Rao, M. R. *see* **Conforti, Michele, 94f:05027**
Rhee, WanSoo T. (*with* Talagrand, Michel) On-line bin packing of items of random sizes. II. (English summary) **94m:90032**
Sachkov, V. N. Asymptotics of the number of t-minimal coverings of a set. (Russian. Russian summary) **94d:05005**
Skupień, Zdzisław The complete graph t-packings and t-coverings. (English summary) **94k:05154**
Talagrand, Michel *see* **Rhee, WanSoo T., 94m:90032**

05B45 Tessellation and tiling problems [see also 52C20, 52C22]

Bohne, Jochen (*with* Dress, Andreas W. M.; Fischer, Stefan) A simple proof for de Bruijn's dualization principle. (English summary) **94d:05036**
Dress, Andreas W. M. *see* **Bohne, Jochen; et al., 94d:05036**
Fischer, Stefan *see* **Bohne, Jochen; et al., 94d:05036**
Kleitman, Daniel J. Partitioning a rectangle into many subrectangles so that a line can meet only a few. (English summary) **94j:05036**

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Arnoux, Pierre (*with* Mauduit, Christian; Shiokawa, Iekata; Tamura, Jun-ichi) Complexity of sequences defined by billiard in the cube. (English and French summaries) **94m:11028**
Braß, Peter Triangulations and lattice points. (English summary) **94g:52019**
Calogero, A. Strong isoperimetric inequality for the edge graph of a tiling of the plane. **94m:52024**
Dawson, Robert J. MacG. (*with* Paré, Robert) Characterizing tileorders. (English summary) **94k:06002**
Dress, Andreas W. M. (*with* Huson, Daniel H.; Molnár, Emil) The classification of face-transitive periodic three-dimensional tilings. (English summary) **94g:52025**
Elkies, Noam (*with* Kuperberg, Greg; Larsen, Michael; Propp, James) Alternating-sign matrices and domino tilings. I. (English summary) **94f:52035**
Feiste, Uwe *see* **Flachsmeyer, Jürgen; et al., 94b:00007**
Flachsmeyer, Jürgen (*with* Feiste, Uwe; Manteuffel, Karl) ★ Mathematik und ornamentale Kunstformen. (German) [Mathematics and ornamental art forms] **94b:00007**
Gilbert, William J. Bricklaying and the Hermite normal form. **94a:52042**
Huson, Daniel H. *see* **Dress, Andreas W. M.; et al., 94g:52025**
Jablan, Slavik Vlado Periodic antisymmetry tilings. (English summary) **94m:52025**
Jones, Christopher B. Pavages de sommets d'espèce numéro 3. (English and French summaries) [Periodic tilings with vertices of species number 3] **94h:52043**
Kenyon, Claire (*with* Kenyon, Richard) Comment paver des polygones avec des barres. (English and French summaries) [Tiling polygons with bars] **94h:52044**
Kenyon, Richard Self-replicating tilings. (English summary) **94a:52043**
— Tiling a polygon with parallelograms. (English summary) **94a:52041**
— *see also* **Kenyon, Claire, 94h:52044**
Kuperberg, Greg *see* **Elkies, Noam; et al., 94f:52035**
Lagarias, Jeffrey C. (*with* Romano, D. S.) A polyomino tiling problem of Thurston and its configurational entropy. (English summary) **94f:52038**
Larsen, Michael *see* **Elkies, Noam; et al., 94f:52035**
Lauwerier, H. A. Symmetry and regularity. (Dutch) **94j:00001**
Manteuffel, Karl *see* **Flachsmeyer, Jürgen; et al., 94b:00007**
Mauduit, Christian *see* **Arnoux, Pierre; et al., 94m:11028**
Molnár, Emil *see* **Dress, Andreas W. M.; et al., 94g:52025**
Paré, Robert *see* **Dawson, Robert J. MacG., 94k:06002**
Propp, James *see* **Elkies, Noam; et al., 94f:52035**
Remila, Éric Sur le pavage de tore $T_{a\times b}$ par h_m et v_n. (English and French summaries) [On the tiling of the torus $T_{a\times b}$ by h_m and v_n] **94c:52016**
Rigby, J. F. Compound tilings and perfect colourings. (English summary) (*see* **94h:00013**)
Roanes Lozano, E. *see* **Roanes Macías, E., 94a:20053**
Roanes Macías, E. (*with* Roanes Lozano, E.) Periodic mosaics. (Spanish) **94a:20053**
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Schulte, Egon Tilings. **94g:52026**
Shiokawa, Iekata *see* **Arnoux, Pierre; et al., 94m:11028**
da Silva, Ilda P. F. On fillings of $2N$-gons with rhombi. (English summary) **94f:52021**
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Vince, Andrew Replicating tessellations. (English summary) **94e:52023**

05B50 Polyominoes

Barcucci, Elena (*with* Pinzani, Renzo; Sprugnoli, Renzo) Directed column-convex polyominoes by recurrence relations. (English summary) **94e:05077**
Bousquet-Mélou, Mireille (*with* Viennot, Xavier Gérard) Empilements de segments et q-énumération de polyominos convexes dirigés. (English summary) [Stacks of segments and q-enumeration of directed convex polyominoes] **94a:05045**
Lalanne, J.-C. q-Bessel et polyominos. (French summary) [q-Bessel and polyominos] **94c:05022**
Pinzani, Renzo *see* **Barcucci, Elena; et al., 94e:05077**
Sprugnoli, Renzo *see* **Barcucci, Elena; et al., 94e:05077**
Viennot, Xavier Gérard *see* **Bousquet-Mélou, Mireille, 94a:05045**

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Elkies, Noam (*with* Kuperberg, Greg; Larsen, Michael; Propp, James) Alternating-sign matrices and domino tilings. II. (English summary) **94f:52036**
Girault-Beauquier, Danièle (*with* Latteux, Michel; Slowinski, Karine) A decidability result about convex polyominoes. (English summary) **94m:03024**
Kuperberg, Greg *see* **Elkies, Noam; et al., 94f:52036**
Lagarias, Jeffrey C. (*with* Romano, D. S.) A polyomino tiling problem of Thurston and its configurational entropy. (English summary) **94f:52038**
Lalanne, J.-C. Polyominos parallélogrammes à franges et fonctions de Bessel. (English and French summaries) [Parallelogram polyominos with borders and Bessel functions] **94c:05006**
Larsen, Michael *see* **Elkies, Noam; et al., 94f:52036**
Latteux, Michel *see* **Girault-Beauquier, Danièle; et al., 94m:03024**
Maire, Frédéric A characterization of intersection graphs of the maximal rectangles of a polyomino. (English summary) **94d:05118**
Propp, James *see* **Elkies, Noam; et al., 94f:52036**
Remila, Éric Sur le pavage de tore $T_{a\times b}$ par h_m et v_n. (English and French summaries) [On the tiling of the torus $T_{a\times b}$ by h_m and v_n] **94c:52016**
Romano, D. S. *see* **Lagarias, Jeffrey C., 94f:52038**
Slowinski, Karine *see* **Girault-Beauquier, Danièle; et al., 94m:03024**
Tarakanov, V. E. On the properties of the substitution operation in classes of (0, 1)-matrices. (Russian. Russian summary) **94g:05022**

05B99 None of the above, but in this section

Auslander, Joel (*with* Benjamin, Arthur T.; Wilkerson, Daniel Shawcross) Optimal leapfrogging. **94b:05050**
Batagelj, V. Integer turbine balancing problem. (English summary) **94a:05046**
Benjamin, Arthur T. *see* **Auslander, Joel; et al., 94b:05050**
Blumöhr, Uwe Konvextreue Einbettung endlicher metrischer Räume. [Convexity-preserving imbedding of finite metric spaces] (*see* **94f:00023**)
Duijvestijn, A. J. W. Simple perfect squared squares and 2×1 squared rectangles of order 25. (English summary) **94c:05023**
(Heden, Olof) *see* **Monsky, Paul**
Lam, Clement W. H. Application of group theory to combinatorial searches. (English summary) **94e:05078**
Marinescu, Daniela Propriété des matrices des graphes attachés à un modèle de couture [coupure] rectangulaire. (Romanian summary) [Matrix properties of graphs associated with a rectangular cutting model] **94c:05024**
Monsky, Paul Addendum: "On the modular n-queen problem" [Discrete Math. **102** (1992), no. 2, 155–161; MR 93d:05041] by O. Heden.
Nair, P. S. Counting left-over: a new heuristic paradigm. (English summary) **94k:05056**
Tyszka, Apoloniusz On one combinatorial lemma and its geometric consequences. **94d:05037**
Ullman, Daniel More on the four-numbers game. **94a:05047**
Valtorta, Marco (*with* Zahid, M. Ishaq) Tie-breaking rules for $4 \times n$ Warnsdorff's tours. (English summary) **94k:05057**
Wilkerson, Daniel Shawcross *see* **Auslander, Joel; et al., 94b:05050**
Zahid, M. Ishaq *see* **Valtorta, Marco, 94k:05057**

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Babai, László (*with* Goodman, Albert J.) On the abstract group of automorphisms. (English summary) **94e:05122**
Bétréma, J. (*with* Penaud, Jean-Guy) Animaux et arbres guingois. (English and French summaries) [Animals and lopsided trees] **94e:05079**
van de Craats, Jan Puzzles, permutations and parities. (Dutch) (*see* **94a:51002**)
Crama, Yves Concave extensions for nonlinear 0-1 maximization problems. (English summary) **94i:90101**
Farrell, E. J. A graph-theoretic approach to rook theory. **94c:05057**
Goodman, Albert J. *see* **Babai, László, 94e:05122**
Leung, Ka Hin (*with* Ma, Siu Lun) Partial difference triples. (English summary) **94h:05099**
Lin, Dong Dai The characteristic pair and trace expression of LR arrays. (English summary) **94i:11101**
Ma, Siu Lun *see* **Leung, Ka Hin, 94h:05099**
Penaud, Jean-Guy *see* **Bétréma, J., 94e:05079**
Roth, Richard L. Perfect colorings of multipatterns in the plane. (English summary) **94m:52026**

05Cxx Graph theory {For applications of graphs, see 68Q90, 68R10, 90C35, 94C15.}

Holton, Derek (*with* Sheehan, J.) ★ The Petersen graph. **94j:05037**
(Kano, Mikio) *see* **Graph theory and applications, 94m:05058**
(Okamura, Haruko) *see* **Graph theory and applications, 94m:05058**
Sheehan, J. *see* **Holton, Derek, 94j:05037**
(Tazawa, Shinsei) *see* **Graph theory and applications, 94m:05058**
(Ushio, Kazuhiko) *see* **Graph theory and applications, 94m:05058**
(Yamasaki, Y.) *see* **Graph theory and applications, 94m:05058**

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Conference:
Graph Theory and Applications ★ Graph theory and applications. **94m:05058**
Graph theory and applications ★ Graph theory and applications. **94m:05058**
Hakone ★ Graph theory and applications. **94m:05058**

Items with secondary classifications in 05Cxx

Andrásfai, Béla ★ Graph theory: flows, matrices. **94a:05001**
(Bíró, O.) *see* **Andrásfai, Béla, 94a:05001**

05C05 Trees

Achuthan, N. R. (*with* Caccetta, L.) Addendum: "Minimum weight spanning trees with bounded diameter" [Australas. J. Combin. 5 (1992), 261–276; MR 93a:05049]. **94f:05040**
Bapat, R. B. Mixed discriminants and spanning trees. (English summary) **94d:05038**
Barkauskas, Anthony E. Efficient dominating sets in spanning trees. (English summary) **94m:05059**
Bétréma, J. (*with* Zvonkin, A.) La vraie forme d'un arbre. [The true form of a tree] **94k:05058**
— (*with* Penaud, Jean-Guy) Animaux et arbres guingois. (English and French summaries) [Animals and lopsided trees] **94e:05079**
Borie, Richard B. (*with* Gupta, Arobinda) Balanced decompositions for partial k-trees. (English summary) **94k:05059**
Brodskiĭ, G. M. (*with* Kitaeva, O. R.) On the centroid of a graph. (Russian) **94e:05080**
Caccetta, L. *see* **Achuthan, N. R., 94f:05040**
Caro, Yair (*with* Krasikov, Ilia; Roditty, Y.) On induced subgraphs of trees, with restricted degrees. (English summary) **94k:05060**
Ch'ên, Po Liang (*with* Matsumoto, Makoto; Wang, Jian Fang; Zhang, Zhong Fu; Zhang, Jian Xun) A short proof of Nash-Williams' theorem for the arboricity of a graph. (English summary)
Chen, William Y. C. A coding algorithm for Rényi trees. (English summary) **94b:05051**
Chlebíková, J. On the tree-width of a graph. (English summary) **94f:05041**
Choi, Sul-young (*with* Guan, Puhua) A spanning tree of the 2^m-dimensional hypercube with maximum number of degree-preserving vertices. (English summary) **94b:05052**
Cieslik, Dietmar 1-Steiner-minimal-trees in metric spaces. (English summary) **94m:05060**
Cohen, Joel M. (*with* Colonna, Flavia) The functional analysis of the X-ray transform on trees. (English summary) **94a:05048**
Cole, T. *see* **Thomas, D. A.; et al., 94a:05056**
Colonna, Flavia *see* **Cohen, Joel M., 94a:05048**
Ding, Ji Yu (*with* Song, Guo Dong^2) On optimal network with quasi-full Steiner topology. (English summary) **94e:05081**
Du, Ding Zhu (*with* Gao, Biao; Graham, Ronald L.; Liu, Zi Cheng; Wan, Peng Jun) Minimum Steiner trees in normed planes. (English summary) **94b:05053**
Dziechcińska-Halamoda, Z. (*with* Michael, J.; Szwiec, W.) Games without repetitions on trees and multitrees. **94m:05061**
Eppstein, David Finding the k smallest spanning trees. **94e:05082**
Flajolet, Philippe (*with* Gao, Zhi-Cheng; Odlyzko, Andrew M.; Richmond, L. Bruce) The distribution of heights of binary trees and other simple trees. (English summary) **94k:05061**
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Carré, Christophe (*with* Lascoux, Alain; Leclerc, Bernard) Turbo-straightening for decomposition into standard bases. (English summary) **94b:05212**
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Fomin, S. V. (*with* Greene, Curtis) A Littlewood-Richardson miscellany. **94b:05213**
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Kerov, S. V. The asymptotics of interlacing sequences and the growth of continual Young diagrams. (Russian summary)
King, Ronald Curtis (*with* Welsh, T. A.) Construction of graded covariant GL(m/n) modules using tableaux. (English summary) **94h:05095**
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Okada, Soichi Robinson-Schensted-type algorithms for the spinor representations of the orthogonal Lie algebra so($2n$, C). **94e:05267**
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Barcelo, Hélène Young straightening in a quotient S_n-module. (English summary) **94b:20016**
Benkart, Georgia (*with* Britten, Daniel; Lemire, Frank) Projection maps for tensor products of gl(r, C)-representations. (English summary) **94a:17003**
Bernasconi, A. (*with* Leoncini, Mauro; Resta, Giovanni) Spectral properties of some matrices close to the Toeplitz triangular form. (English summary) **94m:15020**
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Brenti, Francesco Determinants of super-Schur functions, lattice paths, and dotted plane partitions. **94m:05198**
Britten, Daniel *see* **Benkart, Georgia; et al., 94a:17003**
Calderbank, A. Robert (*with* Hanlon, Phil; Sundaram, Sheila) Representations of the symmetric group in deformations of the free Lie algebra. **94c:20026**
Coker, C. A problem related to Foulkes's conjecture. (English summary) **94g:20019**
Flores de Chela, Delia (*with* Méndez, Miguel A.) Equivariant representations of the symmetric groups. **94a:20024**
Gamkrelidze, R. V. *see* **Agrachëv, A. A., 94h:20018**
Garfinkle, Devra On the classification of primitive ideals for complex classical Lie algebras. III. **94i:17017**
Garsia, Adriano M. (*with* Haiman, Mark D.) A graded representation model for Macdonald's polynomials. (English summary) **94b:05206**
Haiman, Mark D. *see* **Garsia, Adriano M., 94b:05206**
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Hoffman, P. N. (*with* Humphreys, John F.) ★ Projective representations of the symmetric groups. **94f:20027**
Huang, Rosa Q. (*with* Zhang, James J.) Standard basis theorem for quantum linear groups. (English summary) **94j:16067**
Humphreys, John F. *see* **Hoffman, P. N., 94f:20027**
Jockusch, William *see* **Billey, Sara C.; et al., 94m:05197**
Krattenthaler, C. Generating functions for shifted plane partitions. (English summary) **94b:05013**
La Scala, Roberto Gröbner bases and straightening rules for Young bitableaux. (Italian. English summary) **94e:13054**
Lazarev, A. G. Practical results of the study of the generation of a symmetric group by systems of generators. (Russian. English and Ukrainian summaries) **94b:20005**
Lemire, Frank *see* **Benkart, Georgia; et al., 94a:17003**
Leoncini, Mauro *see* **Bernasconi, A.; et al., 94m:15020**
Leroux, Pierre *see* **de Médicis, Anne, 94g:05013a** *and* **94g:05013b**
de Médicis, Anne (*with* Leroux, Pierre) A unified combinatorial approach for q- (and p, q-) Stirling numbers. (English summary) **94g:05013a**
— (*with* Leroux, Pierre) Erratum: "A unified combinatorial approach for q- (and p, q-) Stirling numbers". **94g:05013b**
Méndez, Miguel A. *see* **Flores de Chela, Delia, 94a:20024**
Onn, Shmuel Geometry, complexity, and combinatorics of permutation polytopes. (English summary) **94j:52020**
Proctor, Robert A. A bideterminant proof of a product identity for plane partitions with symmetries. (English summary) **94g:05103**
Resta, Giovanni *see* **Bernasconi, A.; et al., 94m:15020**
Ringel, Claus Michael The composition algebra of a cyclic quiver. Towards an explicit description of the quantum group of type $\tilde{A}_n$. **94g:16013**
Shi, Jian Yi Skew tableaux, lattice paths, and bounded partitions. (English summary) **94c:05011**
Stanley, Richard P. *see* **Billey, Sara C.; et al., 94m:05197**
Stong, Richard A. The average order of a matrix. (English summary) **94j:11094**
Sundaram, Sheila *see* **Calderbank, A. Robert; et al., 94c:20026**
Terasoma, Tomohide (*with* Yamada, Hirofumi) Higher Specht polynomials for the symmetric group. **94b:20020**
Woodcock, David J. Straightening codeterminants. **94h:05096**
Yamada, Hirofumi *see* **Terasoma, Tomohide, 94b:20020**
Zhang, James J. *see* **Huang, Rosa Q., 94j:16067**

05E15 Combinatorial problems concerning the classical groups [see also 22E45, 33C80]

Grabiner, David J. (*with* Magyar, Peter) Random walks in Weyl chambers and the decomposition of tensor powers. (English summary) **94m:05202**
Iiyori, Nobuo (*with* Yamaki, Hiroyoshi) Prime graph components of the simple groups of Lie type over the field of even characteristic. (English summary) **94e:05268**
Kerov, S. V. (*with* Kirillov, A. N.) Combinatorics of rational representations of the group GL(n, C). (Russian. English and Russian summaries) **94a:05214**
Kirillov, A. N. Decomposition of symmetric and exterior powers of the adjoint representation of $\mathfrak{gl}_N$. I. Unimodality of principal specialization of the internal product of the Schur functions. (English summary) **94b:05215**
— *see also* **Kerov, S. V., 94a:05214**
Magyar, Peter *see* **Grabiner, David J., 94m:05202**
Proctor, Robert A. Reflection and algorithm proofs of some more Lie group dual pair identities. (English summary) **94f:05147**
— A bideterminant proof of a product identity for plane partitions with symmetries. (English summary) **94g:05103**
Stanley, Richard P. (*with* Stembridge, John R.) On immanants of Jacobi-Trudi matrices and permutations with restricted position. (English summary) **94d:05147**
Stembridge, John R. *see* **Stanley, Richard P., 94d:05147**
Tan, Lin Some determinantal identities and the big cells. **94g:05104**
Woodcock, David J. Straightening codeterminants. **94h:05096**
Yamaki, Hiroyoshi *see* **Iiyori, Nobuo, 94e:05268**

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Brini, Andrea (*with* Huang, Rosa Q.; Teolis, Antonio G. B.) The umbral symbolic method for supersymmetric tensors. **94a:05015**
Brock, Bradley W. A new construction of circulant GH(p^2; Z_p). (English summary) **94e:05063**
Brouwer, A. E. (*with* van Eijl, C. A.) On the p-rank of the adjacency matrices of strongly regular graphs. (English summary) **94b:05217**
Buchsbaum, David A. (*with* Rota, Gian-Carlo) Projective resolutions of Weyl modules. (English summary) **94a:20074**
Celniker, Nancy (*with* Poulos, Steven; Terras, Audrey; Trimble, Cindy; Velasquez, Elinor) Is there life on finite upper half planes? **94h:05055**
Cherednik, I. V. The Macdonald constant-term conjecture. **94i:17016**
Colpa, J. P. *see* **Temme, F. P., 94i:81042**
Donkin, Stephen Invariant functions on matrices. **94b:20017**
van Eijl, C. A. *see* **Brouwer, A. E., 94b:05217**
Fleischmann, Peter (*with* Janiszczak, Ingo) Combinatorics and Poincaré polynomials of hyperplane complements for exceptional Weyl groups. **94e:52013**
Fripertinger, Harald Endliche Gruppenaktionen auf Funktionenmengen. Das lemma von Burnside—Repräsentantenkonstruktionen—Anwendungen in der Musiktheorie. (English summary) [Finite group actions on sets of functions. Burnside's lemma. Construction of representatives. Application in music theory] **94j:05137**
Gaeta, Federico A natural association of PGL(V)-orbits in the Segre variety $(\mathbb{P}(V))^m$ with flags and Young tableaux. (English summary) **94b:05214**
Huang, Rosa Q. *see* **Brini, Andrea; et al., 94a:05015**
Huo, Yuan Ji Lattices generated by subspaces of the same dimension and rank in orthogonal geometry over finite fields of odd characteristic. **94i:20084**
Janiszczak, Ingo *see* **Fleischmann, Peter, 94e:52013**
Józefiak, Tadeusz (*with* Sagan, Bruce E.) Basic derivations for subarrangements of Coxeter arrangements. (English summary) **94j:52023**
Kadell, Kevin W. J. A proof of the q-Macdonald-Morris conjecture for BC_n. **94h:33013**
Kirillov, Anatoli A. Combinatorics of coadjoint orbits. (Russian) **94c:20080**
Lazebnik, Felix (*with* Ustimenko, V. A.) New examples of graphs without small cycles and of large size. (English summary) **94j:05071**
Okada, Soichi Alternating sign matrices and some deformations of Weyl's denominator formulas. (English summary) **94e:05027**
Poulos, Steven *see* **Celniker, Nancy; et al., 94h:05055**
Pragacz, Piotr (*with* Ratajski, Jan) A Pieri-type formula for Sp($2m$)/P and SO($2m+1$)/P. (English and French summaries) **94i:14055**
— (*with* Ratajski, Jan) Pieri type formula for isotropic Grassmannians; the operator approach. (English summary) **94d:14046**
Ratajski, Jan *see* **Pragacz, Piotr, 94d:14046** *and* **94i:14055**
Rota, Gian-Carlo *see* **Buchsbaum, David A., 94a:20074**
Sagan, Bruce E. *see* **Józefiak, Tadeusz, 94j:52023**

Stembridge, John R. Some particular entries of the two-parameter Kostka matrix. (English summary) **94h:05092**
Stong, Richard A. The average order of a matrix. (English summary) **94j:11094**
Temme, F. P. (*with* Colpa, J. P.) Demonstration of the origins of cooperativity within $SU2 \times \mathscr{S}_6$ mapping over $\{\tilde{\mathbf{H}}_n\}$ Liouvillian carrier subspaces characterising the MQ-NMR cluster $[A]_6(\mathscr{S}_6)$ and its $\{|kqv:[\tilde{\lambda}]\rangle\}$ tensorial bases. A comparison of the enumerative combinatorial aspects of Rota scalar invariants and derivations of Liouville space utilising $\mathscr{S}_6$-inner tensor product algebra. (English summary) **94i:81042**
Teolis, Antonio G. B. *see* **Brini, Andrea; et al., 94a:05015**
Terras, Audrey *see* **Celniker, Nancy; et al., 94h:05055**
Trimble, Cindy *see* **Celniker, Nancy; et al., 94h:05055**
Ustimenko, V. A. *see* **Lazebnik, Felix, 94j:05071**
Velasquez, Elinor *see* **Celniker, Nancy; et al., 94h:05055**
Wall, G. E. A note on multiplicity-free tensor representations. (English summary) **94g:20020**

05E20 Group actions on designs, geometries and codes

Berger, Thierry Groupes de permutations des codes MDS affine-invariants. (English and French summaries) [Permutation groups of affine-invariant MDS codes] **94d:05148**
Chernov, V. G. On the Fourier transform of the Hamming norm. (Russian) **94h:05097**
Chiricota, Yves Classification des espèces moléculaires de degré 6 et 7. (English and French summaries) [Classification of molecular species of degrees 6 and 7] **94i:05110**
Yakir, Arieh Inclusion matrix of k vs. l affine subspaces and a permutation module of the general affine group. (English summary) **94i:05111**

Items with secondary classifications in 05E20

De Resmini, Marialuisa J. (*with* Jungnickel, Dieter) Strongly regular semi-Cayley graphs. (English summary) **94d:05150**
Faina, Giorgio The maximum size of a (Ω, P, Q)-cap in PG(3, 5). (English summary) **94i:51012**
Jungnickel, Dieter *see* **De Resmini, Marialuisa J., 94d:05150**
Laue, Reinhard Construction of combinatorial objects—a tutorial. (English summary) **94i:20008**
Mnukhin, V. B. The k-orbit reconstruction and the orbit algebra. (English summary) **94d:05090**
Saeli, D. On systems of involutorial permutations with strictly transitive identity and their groups of automorphisms. (Italian. English summary) **94d:20006**
Wei, Wan Di (*with* Xu, Ju Yong) Cycle index of direct product of permutation groups and number of equivalence classes of subsets of Z_v. (English summary) **94k:05013**
Xu, Ju Yong *see* **Wei, Wan Di, 94k:05013**

05E25 Group actions on posets and homology groups of posets [see also 06A09]

Fripertinger, Harald Endliche Gruppenaktionen auf Funktionenmengen. Das lemma von Burnside—Repräsentantenkonstruktionen—Anwendungen in der Musiktheorie. (English summary) [Finite group actions on sets of functions. Burnside's lemma. Construction of representatives. Application in music theory] **94j:05137**
Morris, I. (*with* Wensley, C. B.) Cycle indices and subgroup lattices. (English summary) **94k:05217**
Weidner, Michael (*with* Welker, Volkmar) The combinatorics and the homology of the poset of subgroups of p-power index. (English summary) **94i:05112**
Welker, Volkmar *see* **Weidner, Michael, 94i:05112**
Wensley, C. B. *see* **Morris, I., 94k:05217**

Items with secondary classifications in 05E25

Liu, Wei-Ping (*with* Wan, Hong Hui) Automorphisms and isotone self-maps of ordered sets with top and bottom. (English summary) **94m:06004**
Sundberg, Carl (*with* Wagner, Carl G.) Generalized finite differences and Bayesian conditioning of Choquet capacities. (English summary) **94c:06004**
Wagner, Carl G. *see* **Sundberg, Carl, 94c:06004**
Wan, Hong Hui *see* **Liu, Wei-Ping, 94m:06004**

05E30 Association schemes, strongly regular graphs

Asamoto, Noriko (*with* Koyama, Toshiko; Uchibe, Konagi) On regular graphs and the associated real algebras generated by the adjacency matrices. (English summary) **94m:05203**
Bagchi, Bhaskar A regular two-graph admitting the Hall-Janko-Wales group. (English summary) **94d:05149**
Bannai, Eiichi (*with* Song, Sung-Yell) Character tables of fission schemes and fusion schemes. (English summary) **94f:05149**
— Association schemes and fusion algebras (an introduction). (English summary) **94f:05148**
— Algebraic combinatorics—recent topics in association schemes. (Japanese) **94g:05105**
Bier, Thomas Totientenzahlen und simpliziale Komplexe. (German summary) [Totient numbers and simplicial complexes] **94k:05218**
van Bon, J. T. M. (*with* Brouwer, A. E.) The distance-regular antipodal covers of classical distance-regular graphs. **94b:05216**
Brouwer, A. E. (*with* van Eijl, C. A.) On the p-rank of the adjacency matrices of strongly regular graphs. (English summary) **94b:05217**
— (*with* Haemers, W. H.) The Gewirtz graph: an exercise in the theory of graph spectra. (English summary) **94k:05219**
— On the uniqueness of a regular thin near octagon on 288 vertices (or the semibiplane belonging to the Mathieu group M_{12}). (English summary) **94k:05220**
— *see also* **van Bon, J. T. M., 94b:05216**
Chihara, Laura M. Askey-Wilson polynomials, kernel polynomials and association schemes. (English summary) **94m:05204**
Claasen, H. L. *see* **Goldbach, R. W., 94b:05219** *and* **94b:05220**
De Resmini, Marialuisa J. (*with* Jungnickel, Dieter) Strongly regular semi-Cayley graphs. (English summary) **94d:05150**
van Eijl, C. A. *see* **Brouwer, A. E., 94b:05217**
Fon-Der-Flaass, D. G. There exists no distance-regular graph with intersection array (5, 4, 3; 1, 1, 2). (English summary) **94m:05205**
— A distance-regular graph with intersection array (5, 4, 3, 3; 1, 1, 1, 2) does not exist. (English summary) **94b:05218**
Godsil, Chris D. Equitable partitions. (English summary) **94m:05206**
— Geometric distance-regular covers. (English summary) **94h:05098**
Goldbach, R. W. (*with* Claasen, H. L.) Cyclotomic schemes over finite rings. (English summary) **94b:05219**
— (*with* Claasen, H. L.) Cyclotomic schemes over finite, commutative, admissible rings. (English summary) **94b:05220**
Haemers, W. H. There exists no (76, 21, 2, 7) strongly regular graph. (English summary) **94m:05207**
— *see also* **Brouwer, A. E., 94k:05219**
Jungnickel, Dieter *see* **De Resmini, Marialuisa J., 94d:05150**
Koyama, Toshiko *see* **Asamoto, Noriko; et al., 94m:05203**
Leonard, Douglas A. (*with* Nomura, Kazumasa) The girth of a directed distance-regular graph. (English summary) **94e:05269**
Leung, Ka Hin (*with* Ma, Siu Lun) Partial difference triples. (English summary) **94h:05099**
Levenshtein, V. I. Packing and decomposition problems for polynomial association schemes. (English summary) **94m:05208**
Ma, Siu Lun *see* **Leung, Ka Hin, 94h:05099**
Makhnëv, A. A. *see* **Zyulyarkina, N. D., 94k:05222**
Manickam, N. First distributed sets in the association scheme of bilinear forms. (English summary) **94b:05221**
Martin, William J. Completely regular designs of strength one. (English summary) **94m:05209**
Meyerowitz, Aaron D. Cycle-balanced partitions in distance-regular graphs. (English summary) **94g:05106**
Munemasa, A. (*with* Pasechnik, D. V.; Shpektorov, S. V.) The automorphism group and the convex subgraphs of the quadratic forms graph in characteristic 2. (English summary) **94j:05138**
Nomura, Kazumasa Some inequalities in distance-regular graphs. (English summary) **94e:05270**
— *see also* **Leonard, Douglas A., 94e:05269**
Pasechnik, D. V. Skew-symmetric association schemes with two classes and strongly regular graphs of type $L_{2n-1}(4n-1)$. (English summary) **94a:05215**
— *see also* **Munemasa, A.; et al., 94j:05138**
Sharma, Bhu Dev (*with* Sookoo, Norris) Association schemes and their extensions arising from metric inducing partitions of F_q. (English summary) **94d:05151**
Shpektorov, S. V. *see* **Munemasa, A.; et al., 94j:05138**
Soicher, Leonard H. Three new distance-regular graphs. **94k:05221**
Song, Sung-Yell *see* **Bannai, Eiichi, 94f:05149**
Sookoo, Norris *see* **Sharma, Bhu Dev, 94d:05151**
Terwilliger, Paul The subconstituent algebra of an association scheme. I. (English summary) **94b:05222**
— P- and Q-polynomial association schemes and their antipodal P-polynomial covers. (English summary) **94i:05113**
— The subconstituent algebra of an association scheme. II. (English summary) **94e:05271**
Uchibe, Konagi *see* **Asamoto, Noriko; et al., 94m:05203**
Zyulyarkina, N. D. (*with* Makhnëv, A. A.) Strongly regular locally latticed graphs. (Russian. Russian summary) **94k:05222**

Items with secondary classifications in 05E30

Brouwer, A. E. (*with* Koolen, J. H.) A new infinite series of regular uniformly geodetic code graphs. (English summary) **94h:05063**
Chakravarti, I. M. Geometric construction of some families of two-class and three-class association schemes and codes from nondegenerate and degenerate Hermitian varieties. (English summary) **94b:51013**
— A three-class association scheme on the flags of a finite projective plane and a (PBIB) design defined by the incidence of the flags and the Baer subplanes in $PG(2, q^2)$. (English summary) **94h:51027**
Coker, C. A problem related to Foulkes's conjecture. (English summary) **94g:20019**
Deza, Michel (*with* Grishukhin, V. P.) Hypermetric graphs. **94m:05071**
Grishukhin, V. P. *see* **Deza, Michel, 94m:05071**
Hiraki, Akira (*with* Suzuki, Hiroshi) On distance regular graphs with $b_1 = c_{d-1}$. (English summary) **94b:05158**
— A circuit chasing technique in a distance-regular graph with triangles. (English summary) **94h:05029**
Hobart, Sylvia A. (*with* Payne, Stanley E.) Reconstructing a generalized quadrangle from its distance two association scheme. (English summary) **94h:51013**
Ionin, Yury J. (*with* Shrikhande, Mohan S.) $(2s-1)$-designs with s intersection numbers. (English summary) **94k:05027**
Jaeger, François Strongly regular graphs and spin models for the Kauffman polynomial. (English summary) **94e:57008**
Koolen, J. H. On uniformly geodetic graphs. (English summary) **94m:05074**
— *see also* **Brouwer, A. E., 94h:05063**
Lazebnik, Felix (*with* Ustimenko, V. A.) Some algebraic constructions of dense graphs of large girth and of large size. (English summary) (*see* **94c:05002**)
Lou, Ding Jun Connectivity and 2-extendability of strongly regular graphs. (English and Chinese summaries) **94a:05129**
Manickam, N. (*with* Miklós, D.) On the number of nonnegative partial sums of a nonnegative sum. **94d:05140**
Miklós, D. *see* **Manickam, N., 94d:05140**
Nomura, Kazumasa Homogeneous graphs and regular near polygons. (English summary) **94m:05160**
Payne, Stanley E. *see* **Hobart, Sylvia A., 94h:51013**
Shiu, Wai-Chee Algebraic structure of Schur rings. (English summary) **94b:20007**

Shrikhande, Mohan S. *see* **Ionin, Yury J., 94k:05027**
Suzuki, Hiroshi On distance regular graphs with $b_e = 1$. (English summary) **94b:05030**
— *see also* **Hiraki, Akira, 94b:05158**
Ustimenko, V. A. *see* **Lazebnik, Felix, (94c:05002)**
Vetchý, Vladimír Metrically regular square of metrically regular bipartite graphs of diameter $D = 6$. (English summary) **94m:05166**
Wei, Hong Zeng (*with* Yang, Jun Ying) Using subspaces of finite vector space to construct PBIB designs with many associate classes. (English summary) **94e:05049**
— (*with* Yang, Jun Ying) Using (2, 1)-type subspaces of the finite unitary geometry to construct association schemes and PBIB designs. I. (Chinese. Chinese summary) **94m:05031**
Yang, Jun Ying *see* **Wei, Hong Zeng, 94e:05049** *and* **94m:05031**

05E35 Orthogonal polynomials [see also 33C45, 33C50, 33D45]

Constantineau, Ivan Auto-similarité dans la combinatoire des polynômes orthogonaux. (French summary) [Self-similarity in the combinatorics of orthogonal polynomials] **94h:05100**
Delest, Marie-Pierre (*with* Fedou, J. M.) Enumeration of skew Ferrers diagrams. (English and Italian summaries) **94b:05223**
Fedou, J. M. *see* **Delest, Marie-Pierre, 94b:05223**

Items with secondary classifications in 05E35

Beerends, R. J. (*with* Opdam, E. M.) Certain hypergeometric series related to the root system BC. **94e:33024**
Lassalle, Michel Matrice de Hua et polynômes de Jack. [Hua matrices and Jack polynomials] **94d:33006**
Opdam, E. M. *see* **Beerends, R. J., 94e:33024**
Simion, Rodica (*with* Stanton, Dennis) Specializations of generalized Laguerre polynomials. (English summary) **94m:05013**
Stanton, Dennis *see* **Simion, Rodica, 94m:05013**
Takebayashi, Tadayoshi *see* **Ueno, Kimio, 94i:33026**
Ueno, Kimio (*with* Takebayashi, Tadayoshi) Zonal spherical functions on quantum symmetric spaces and Macdonald's symmetric polynomials. (English summary) **94i:33026**

05E99 None of the above, but in this section

Brooks, Robert Wolfe The spectral geometry of k-regular graphs. **94a:05216**
Muzychuk, M. E. The structure of rational Schur rings over cyclic groups. (English summary) **94j:05139**

Items with secondary classifications in 05E99

Brion, Michel On the representation theory of SL(2). **94m:20089**
Crapo, Henry On the Anick-Rota resolution of the bracket ring. **94a:13009**
Katsura, Masashi (*with* Kobayashi, Yuji) The shuffle algebra and its derivations. (English summary) **94f:16045**
Kobayashi, Yuji *see* **Katsura, Masashi, 94f:16045**
Modak, M. R. Combinatorial meaning of the coefficients of a Hilbert polynomial. (English summary) **94e:13022**
Rajan, Dayanand S. The equations $D^k Y = X^n$ in combinatorial species. (English summary) **94e:18004**
Reiner, Victor Signed posets. (English summary) **94d:06011**
Schmitt, William R. Hopf algebras of combinatorial structures. (English summary) **94a:16073**
Stanley, Richard P. A monotonicity property of h-vectors and h^*-vectors. (English summary) **94f:52016**
Yang, Julia S. Asymmetric structures, types, and indicator polynomials. (English summary) **94f:05006**

06-XX Order, lattices, ordered algebraic structures [see also 18B35]

06-02 Research exposition (monographs, survey articles)

Trotter, William T. ★ Combinatorics and partially ordered sets. **94a:06001**

Items with secondary classifications in 06-02

Stern, Manfred ★ Semimodular lattices. **94e:06005**

06-04 Explicit machine computation and programs (not the theory of computation or programming)

Mitra, Arun K. (*with* Ortiz, Justin) A massive parallel computation in Boolean logic. (English summary)
Ortiz, Justin *see* **Mitra, Arun K.**

06-06 Proceedings, conferences, collections, etc.

(Conrad, Paul F.) *see* **Ordered algebraic structures, 94e:06001**
(Holland, W. Charles) *see* **Ordered algebraic structures, 94e:06001**
(Martinez, Jorge²) *see* **Ordered algebraic structures, 94e:06001**

Items listed otherwise than by author

Birthday:
Conrad, Paul F. ★ Ordered algebraic structures. **94e:06001**
Conference:
Ordered Algebraic Structures ★ Ordered algebraic structures. **94e:06001**
Gainesville, FL ★ Ordered algebraic structures. **94e:06001**
Ordered algebraic structures ★ Ordered algebraic structures. **94e:06001**

Items with secondary classifications in 06-06

(Rosenberg, Ivo G.) *see* **Algebras and orders, 94b:08001**
(Sabidussi, Gert) *see* **Algebras and orders, 94b:08001**

Items listed otherwise than by author

Algebras and orders ★ Algebras and orders. **94b:08001**
Montreal, PQ ★ Algebras and orders. **94b:08001**
NATO Advanced Study Institute:
Algebras and Orders ★ Algebras and orders. **94b:08001**

06Axx Ordered sets

06A05 Total order

Dehornoy, Patrick A canonical ordering for free self-distributive systems. (English summary) **94k:06001**
Higgins, Peter M. Combinatorial results for semigroups of order-preserving mappings. **94a:06002**

Items with secondary classifications in 06A05

Candeal, Juan Carlos (*with* Induráin Eraso, Esteban) Utility functions on chains. (English summary) **94b:90011**
Di Nola, Antonio (*with* Kołodziejczyk, Waldemar; Sessa, Salvatore) Transitive solutions of relational equations on finite sets and linear lattices. (English summary) **94i:04004**
Fedoryaev, S. T. Countability of widths of algebraic reducibility structures for models in some classes. (English summary) **94h:03063**
Foy, John (*with* Woods, Alan R.) Probabilities of sentences about two linear orderings. **94f:03043**
Glass, A. M. W. (*with* McCleary, Stephen H.) Big subgroups of automorphism groups of doubly homogeneous chains. **94m:20009**
Induráin Eraso, Esteban *see* **Candeal, Juan Carlos, 94b:90011**
Kojman, Menachem (*with* Shelah, Saharon) Nonexistence of universal orders in many cardinals. (English summary) **94b:03064**
Kołodziejczyk, Waldemar *see* **Di Nola, Antonio; et al., 94i:04004**
Li Calzi, M. Quasiconcave functions over chains. (English summary) **94i:90112**
McCleary, Stephen H. *see* **Glass, A. M. W., 94m:20009**
Sessa, Salvatore *see* **Di Nola, Antonio; et al., 94i:04004**
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— Models of random partial orders. **94i:06003**
— (*with* Fishburn, Peter C.; Winkler, Peter M.) Interval orders and linear extension cycles. (English summary) **94h:06004**
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— Corrigendum: "Finding the largest suborder of fixed width" [Order **9** (1992), no. 4, 357–360; MR 94c:06007]. **94k:06006**
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— Orthogonal structures in directed graphs. (English summary) **94a:05083**
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Lehrer, G. I. (*with* Rylands, L. J.) The split building of a reductive group. **94g:20064**
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Stanley, Richard P. A monotonicity property of h-vectors and h^*-vectors. (English summary) **94f:52016**

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06A15 Galois correspondences, closure operators

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06A23 Complete lattices, completions

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06Bxx Lattices [see also 03G10]

06B05 Structure theory

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06B10 Ideals, congruence relations

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06B20 Varieties of lattices

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06B25 Free lattices, projective lattices, word problems [see also 03D40, 08A50, 20F10]

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06B30 Topological lattices, order topologies [see also 06F30, 22A26, 54F05, 54H12]

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06B35 Continuous lattices, generalizations, applications [see also 06B30, 06D10, 06F30, 18B35, 22A26, 68Q55]

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06Cxx Modular lattices, complemented lattices

06C05 Modular lattices, Desarguesian lattices

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06C10 Semimodular lattices, geometric lattices

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06C15 Complemented lattices, orthocomplemented lattices

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06C20 Complemented modular lattices, continuous geometries

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06Dxx Distributive lattices

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Balbes, Raymond Generating sets for catalytic and projective distributive lattices. **94h:06013**
Hart, James B. (*with* Tsinakis, Constantine) Decompositions for relatively normal lattices. (English summary) **94d:06027**
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Beazer, R. (*with* Sichler, J.) Congruence permutable extensions of distributive double p-algebras. (English summary) **94d:06029**
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06D20 Heyting algebras [see also 03Gxx]

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06D30 De Morgan algebras, Łukasiewicz algebras [see also 03G20]

Banaschewski, Bernhard The frame envelope of a σ-frame. (English summary) **94a:06026**
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06Exx Boolean algebras (Boolean rings) [see also 03G05]

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06E05 Structure theory

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06E10 Chain conditions, complete algebras

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06E15 Stone space and related constructions

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Koppelberg, Sabine A construction of Boolean algebras from first-order structures. (English summary) **94m:03098**
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06E20 Ring-theoretic properties [see also 16E50, 16G30]

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06E25 Boolean algebras with additional operations (diagonalizable algebras, etc.)

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06E30 Boolean functions [see also 94C10]

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Sedrakyan, N. G. *see* **Mikhailyuk, M. V., 94f:03011**
Stetsenko, V. A. Degree lower bounds on the complexity of realization of Boolean functions by formulas in incomplete bases. (Russian. Russian summary) **94g:03085**
Volgin, L. I. ★ Свойства и структуры функций осреднения. (Russian. Russian summary) [The properties and structures of averaging functions] **94m:94035**

06E99 None of the above, but in this section

Wesołowski, T. Varieties of locally Boolean algebras. (English summary) **94d:06037**

Items with secondary classifications in 06E99

van Douwen, Eric K. Rigid zero-dimensional dyadic spaces. (English summary) **94a:54066**
Downey, Rod Every recursive Boolean algebra is isomorphic to one with incomplete atoms. (English summary) **94c:03059**
Khomich, V. I. Representation of finite pseudo-Boolean algebras and one of its applications. (Russian. Russian summary) **94d:03053**
Manes, Ernest G. Equations for if-then-else. (*see* **94g:68008**)

Pal'chunov, D. E. (*with* Touraille, Alain) On some connections between Boolean algebras and Heyting algebras. (English summary) **94g:06018**
Pinus, A. G. Löwenheim numbers for skeletons of varieties of Boolean algebras. (Russian. Russian summary) **94a:03053**
Saworotnow, Parfeny P. Totally disconnected compactifications. (English summary) **94k:54046**
Schumacher, Klaus Boolean algebras in AST. (English summary) **94j:03112**
Song, Seok-Zun Linear operators that preserve column rank of Boolean matrices. (English summary) **94a:15024**
Touraille, Alain *see* **Pal'chunov, D. E., 94g:06018**
Wójtowicz, Marek On a weak Freudenthal spectral theorem. (English summary) **94h:46011**

06Fxx Ordered structures

Items with secondary classifications in 06Fxx

(Conrad, Paul F.) *see* **Ordered algebraic structures, 94e:06001**
(Holland, W. Charles) *see* **Ordered algebraic structures, 94e:06001**
(Martinez, Jorge²) *see* **Ordered algebraic structures, 94e:06001**

Items listed otherwise than by author

Birthday:
Conrad, Paul F. ★ Ordered algebraic structures. **94e:06001**
Conference:
Ordered Algebraic Structures ★ Ordered algebraic structures. **94e:06001**
Gainesville, FL ★ Ordered algebraic structures. **94e:06001**
Ordered algebraic structures ★ Ordered algebraic structures. **94e:06001**

06F05 Ordered semigroups [see also 20Mxx]

Almeida Santos, M. H. *see* **Blyth, T. S., 94d:06038**
Berg, Lothar (*with* Peters, Wolfgang) Die linearen involutorischen Halbgruppen achter Ordnung. (German summary) [The linear involutory semigroups of order 8] **94i:06016**
Blyth, T. S. (*with* Almeida Santos, M. H.) On naturally ordered regular semigroups with biggest idempotents. **94d:06038**
— (*with* Giraldes, Emilia; Marques-Smith, M. Paula O.) Dually perfect orthodox Dubreil-Jacotin semigroups. (English summary) **94d:06039**
Borceux, Francis (*with* Succi Cruciani, Rosanna) Sheaves on a quantale. (French summary) **94h:06017**
Carrà Ferro, Giuseppa (*with* Sit, William Y.) On term-orderings and rankings. (English summary) **94m:06016**
Garel, Emmanuelle (*with* Olivier, Jean-Pierre) About the finiteness of monoids generated by closures and interiors. (English summary) **94i:06017**
Giraldes, Emilia *see* **Blyth, T. S.; et al., 94d:06039**
Jakubík, Ján On filters of ordered semigroups. **94k:06008**
Kehayopulu, Niovi On semilattices of simple poe-semigroups. (English summary) **94a:06031**
— On adjoining greatest element to ordered semigroups. (English summary) **94g:06023**
— On intraregular ordered semigroups. **94b:06021**
— (*with* Tsingelis, Michael) On the decomposition of prime ideals of ordered semigroups into their $\mathcal{N}$-classes. **94i:06018**
Marques-Smith, M. Paula O. *see* **Blyth, T. S.; et al., 94d:06039**
Merlier, Thérèse On lattice ordered periodic semigroups. **94g:06024**
Olivier, Jean-Pierre *see* **Garel, Emmanuelle, 94i:06017**
Peters, Wolfgang *see* **Berg, Lothar, 94i:06016**
Sit, William Y. *see* **Carrà Ferro, Giuseppa, 94m:06016**
Succi Cruciani, Rosanna *see* **Borceux, Francis, 94h:06017**
Tsingelis, Michael *see* **Kehayopulu, Niovi, 94i:06018**
Wang, Wen Liang² Double lattice-ordered semigroups. (Chinese. Chinese summary) **94c:06020**
Wehrung, Friedrich Metric properties of positively ordered monoids. (English summary) **94g:06025**
— Restricted injectivity, transfer property and decompositions of separative positively ordered monoids. (English summary) **94m:06017**

Items with secondary classifications in 06F05

Almeida Santos, M. H. *see* **Blyth, T. S., 94m:20127**
Blyth, T. S. (*with* Almeida Santos, M. H.) On weakly multiplicative inverse transversals. (English summary) **94m:20127**
Coulon, Jean-Louis (*with* Coulon, Josette; Höhle, Ulrich) Injectivité dans la catégorie des ensembles fortement M-valués complets. (English summary) [Injectivity in the category of complete strongly M-valued sets] **94b:18001**
Coulon, Josette *see* **Coulon, Jean-Louis; et al., 94b:18001**
Gardner, B. J. Free commutative semifields. (English summary) **94e:12006**
Höhle, Ulrich *see* **Coulon, Jean-Louis; et al., 94b:18001**
Umar, Abdullahi On the semigroups of partial one-to-one order-decreasing finite transformations. (English summary) **94d:20086**
Wehrung, Friedrich Boolean universes above Boolean models. (English summary) **94m:03063**

06F10 Noether lattices

Items with secondary classifications in 06F10

Snider, Robert L. Invariant ideals of commutative rings. **94a:13014**

06F15 Ordered groups [see also 20F60]

Ball, Richard N. (*with* Hager, Anthony W.) Algebraic extensions of an Archimedean lattice-ordered group. I. (English summary) **94a:06032**
Beran, Ladislav An alternative proof of distributivity in l-groups. **94g:06026**
Cherri, Mona (*with* Powell, Wayne B.) Strong amalgamations of lattice ordered groups and modules. (English summary) **94a:06033**
Conrad, Paul F. (*with* Martinez, Jorge²) Signatures and S-discrete lattice-ordered groups. (English summary) **94d:06040**
Darnel, Michael R. Varieties minimal over representable varieties of lattice-ordered groups. (English summary) **94e:06009**
— Cyclic extensions of the Medvedev ordered groups. **94c:06021**
Gluschankof, Daniel Cyclic ordered groups and MV-algebras. **94a:06034**
Hager, Anthony W. *see* **Ball, Richard N., 94a:06032**
Jakubík, Ján Sequential convergences on free lattice ordered groups. **94k:06009**
— Complete retract mappings of a complete lattice ordered group. **94d:06041**
— On directed groups with additional operations. (English summary) **94b:06022**
Jasem, Milan On isometries in partially ordered groups. (English summary) **94c:06022**
Kim, Y. K. (*with* Rhemtulla, Akbar H.) Orderable groups satisfying an Engel condition. (English summary) **94f:06015**
Kolibiar, Milan Direct factors of multilattice groups. II. (English summary) **94g:06027**
Kontolatou, Angeliki *see* **Močkoř, Jiří, 94m:06018** *and* **94m:06019**
Li, Si Ze *see* **Qi, Zhi Nan**
Martinez, Jorge² *see* **Conrad, Paul F., 94d:06040**
Močkoř, Jiří (*with* Kontolatou, Angeliki) Quasi-divisors theory of partly ordered groups. **94m:06019**
— (*with* Kontolatou, Angeliki) Groups with quasi-divisors theory. (English summary) **94m:06018**
Murphy, Gerard J. Partially ordered groups. **94f:06016**
Powell, Wayne B. *see* **Cherri, Mona, 94a:06033**
Qi, Zhi Nan (*with* Li, Si Ze) The torsion classes B_n and B_ω. (Chinese. English and Chinese summaries)
Rhemtulla, Akbar H. *see* **Kim, Y. K., 94f:06015**
Shirshova, E. E. Associated subgroups of pseudo-lattice ordered groups. (Russian. Russian summary) (*see* **94d:00011**)
Tong, Dao Rong Atoms in lattice of radical classes of lattice-ordered groups. (English summary) **94j:06020**
Zafrullah, Muhammad On Riesz groups. **94i:06019**
Zhou, Wei The relation between free functors and O-tensor product functors. (Chinese. English and Chinese summaries) **94f:06017**

Items with secondary classifications in 06F15

Alajbegović, J. (*with* Močkoř, Jiří) ★ Approximation theorems in commutative algebra. (English summary) **94d:13001**
Dubrovin, N. I. Rational closure of a group algebra of a linearly ordered group in the Mal'tsev series field. (Russian) **94c:20015**
— Rational closures of group rings of left-ordered groups. (Russian. Russian summary) **94g:16035**
Gurchenkov, S. A. About varieties of weakly abelian l-groups. (English summary) **94a:20067**
Kropholler, Peter H. Amenability and right orderable groups. **94j:20044**
Močkoř, Jiří *see* **Alajbegović, J., 94d:13001**
Snodgrass, J. T. (*with* Tsinakis, Constantine) Finite-valued algebraic lattices. **94f:06012**
Tsinakis, Constantine *see* **Snodgrass, J. T., 94f:06012**
Varaksin, S. V. A continuum of minimal quasivarieties of l-groups. (Russian. English and Russian summaries) **94m:20064**
Wang, Wen Liang² Double lattice-ordered semigroups. (Chinese. Chinese summary) **94c:06020**
Zhang, Kun Long Necessary and sufficient condition for a group $(G, +)$ to be an l-group. (English summary)
Zheng, Xi Qiang Construction of above and below subgroups and saturated subgroups of lattice-ordered groups. (Chinese. English and Chinese summaries) **94a:20068**

06F20 Ordered abelian groups, Riesz groups, ordered linear spaces [see also 46A40]

Elliott, George A. (*with* Mundici, Daniele) A characterisation of lattice-ordered abelian groups. **94e:06010**
Jakubík, Ján Retracts of abelian cyclically ordered groups. (English summary) **94a:06035**
— Sequential convergences in l-groups without Urysohn's axiom. **94m:06020**
Mundici, Daniele *see* **Elliott, George A., 94e:06010**
Ritter, Gunter (*with* Weispfenning, Volker) On the number of term orders. (English summary) **94e:06011**
Tararin, V. M. On the theory of right-ordered groups. (Russian. Russian summary) **94h:06018**
Weispfenning, Volker *see* **Ritter, Gunter, 94e:06011**
Zhou, Wei Free commutative l-groups. (Chinese. English and Chinese summaries) **94d:06042**

Items with secondary classifications in 06F20

Buskes, G. J. H. M. (*with* van Rooij, A. C. M.) The vector lattice cover of certain partially ordered groups. (English summary) **94c:46014**
Carrà Ferro, Giuseppa (*with* Sit, William Y.) On term-orderings and rankings. (English summary) **94m:06016**
Cignoli, Roberto (*with* Elliott, George A.; Mundici, Daniele) Reconstructing C^*-algebras from their Murray von Neumann orders. **94h:46094**
Elliott, George A. *see* **Cignoli, Roberto; et al., 94h:46094**
Eriksson-Bique, Sirkka-Liisa Characterizations of balayages. (English summary) **94m:31012**
Fischer, Herbert The law of cancellation for hypernorm-balls in linear spaces. (English and Serbo-Croatian summaries) **94e:52003**
Flagg, Robert C. Completeness in continuity spaces. (English summary) **94a:54080**
Hart, James B. (*with* Tsinakis, Constantine) Decompositions for relatively normal lattices. (English summary) **94d:06027**

Loveys, James (*with* Peterzil, Ya'acov) Linear o-minimal structures. (English summary) **94i:03075**
Mundici, Daniele Logic and algebra in Ulam's searching game with lies. **94j:03130**
— *see also* **Cignoli, Roberto; et al., 94h:46094**
Peterzil, Ya'acov *see* **Loveys, James, 94i:03075**
van Rooij, A. C. M. *see* **Buskes, G. J. H. M., 94c:46014**
Sit, William Y. *see* **Carrà Ferro, Giuseppa, 94m:06016**
Tsinakis, Constantine *see* **Hart, James B., 94d:06027**
Wehrung, Friedrich Boolean universes above Boolean models. (English summary) **94m:03063**
Zhou, Wei Tensor products of K-f rings. (Chinese. English summary) **94m:06021**

06F25 Ordered rings, algebras, modules {For ordered fields, see 12J15; see also 13J25, 16W80.}

Cipu, Mihai Some properties of the convexity in modules over F-ordered rings. **94d:06043**
Huijsmans, C. B. Lattice-ordered division algebras. (English summary) **94b:06023**
Larson, Suzanne Square dominated l-ideals and l-products and sums of semiprime l-ideals in f-rings. **94e:06012**
— Primary l-ideals in a class of f-rings. **94g:06028**
Lavrič, Boris On super order principal modules. **94g:06029**
Ma, Jing Jing The unitability of 1-prime lattice-ordered rings with squares positive. (English summary) **94j:06021**
Wojciechowski, Piotr J. Archimedean almost f-algebras that arise as generalized semigroup rings. (English summary) **94k:06010**
— Archimedean orderpotent rings. (English summary) **94d:06044**
Zhou, Wei Exactness of the f-tensor functor for lattice-ordered modules and flat lattice-ordered modules. (Chinese. English and Chinese summaries) **94f:06018**
— Tensor products of K-f rings. (Chinese. English summary) **94m:06021**

Items with secondary classifications in 06F25

Buskes, G. J. H. M. (*with* de Pagter, Bernardus; van Rooij, A. C. M.) Functional calculus on Riesz spaces. **94c:46013**
Cherri, Mona (*with* Powell, Wayne B.) Strong amalgamations of lattice ordered groups and modules. (English summary) **94a:06033**
Dai, Zhi Zhong Preorderings and real places of a commutative ring. (Chinese. Chinese summary) **94m:13032**
Hager, Anthony W. (*with* Martinez, Jorge[2]) Functorial rings of quotients. I. (English summary) **94k:18007**
Handelman, David Representation rings as invariants for compact groups and limit ratio theorems for them. **94c:22005**
Lavrič, Boris On ordered topological algebras. (English summary) **94i:46060**
Martinez, Jorge[2] *see* **Hager, Anthony W., 94k:18007**
de Pagter, Bernardus *see* **Buskes, G. J. H. M.; et al., 94c:46013**
Powell, Wayne B. *see* **Cherri, Mona, 94a:06033**
van Rooij, A. C. M. *see* **Buskes, G. J. H. M.; et al., 94c:46013**
Steinberg, Stuart A. Positive semidefinite forms over totally ordered domains. **94h:16063**
Tecklenburg, Helga ★ Stufen der Anordnung in Geometrie und Algebra. (German) [Levels of ordering in geometry and algebra] **94c:51031**

06F30 Topological lattices, order topologies [see also 06B30, 22A26, 54F05, 54H12]

Items with secondary classifications in 06F30

Lavrič, Boris On ordered topological algebras. (English summary) **94i:46060**
Mo, Zhi Wen Connectivity of completely distributive syntopogenous lattices. (Chinese. English and Chinese summaries)
— Products of syntopogenous structures on completely distributive lattices. (Chinese. English and Chinese summaries)
Ren, Guanshen A continuous extension theorem in linearly ordered spaces and related questions.
Weber, Hans Metrization of uniform lattices. **94h:54036**
Wraith, Gavin C. Using the generic interval. (French summary) **94j:06018**

06F35 BCK-algebras, BCI-algebras [see also 03G25]

Arora, Ashok K. *see* **Goel, Sudhir K., 94d:06046**
Aslam, M. (*with* Deeba, E. Y.; Thaheem, A. B.) On spectral properties of BCK-algebras. (English summary) **94g:06030**
— (*with* Thaheem, A. B.) A new proof of the prime ideal theorem for BCK-algebras. (English summary)
— (*with* Thaheem, A. B.) Addendum to this paper: "On certain ideals of BCK-algebras" [Math. Japon. **36** (1991), no. 5, 895–906; MR 92g:06030]. **Bărbăcioru, Cătălin** Positive implicative BCK-algebras. (English summary) **94f:06019**
— Maximal algebras of quotients. (English summary) **94k:06011**
Blok, W. J. (*with* Raftery, J. G.) Failure of the congruence extension property in BCK-algebras and related structures. (English summary) **94c:06023**
Chen, Zhao Mu The direct sum of well BCI-algebras. (Chinese. English and Chinese summaries)
— (*with* Huang, Yi Sheng[2]) Idempotent element rings. (English summary) **94d:06045**
— *see also* **Huang, Yi Sheng[2]**
Deeba, E. Y. *see* **Aslam, M.; et al., 94g:06030**
Dudek, Wiesław A. On BCC-algebras. **94c:06024**
Gaitan, Hernando The number of simple one-generated bounded commutative BCK-chains. (English summary) **94c:06025**
Goel, Sudhir K. (*with* Arora, Ashok K.) Left permutable BCI-algebras. (English summary) **94d:06046**
Guo, Tuo Ying An extension from normal BCI-algebras to nonnormal BCI-algebras. (English and Chinese summaries)
— The structure of a class of BCI-algebras. (English summary)
— A class of p-semisimple BCI-algebras. (English summary)
Hoo, C. S. (*with* Jun, Young Bae) Essential ideals and homomorphisms in BCI-algebras. (English summary) **94f:06020**
— (*with* Jun, Young Bae) p-projective BCI-algebras. (English summary)
— (*with* Jun, Young Bae) Strongly p-projective BCI-algebras. (English summary)
— Fuzzy ideals of BCI and MV-algebras. (English summary) **94i:06020**
Hu, Qing Ping (*with* Hu, Zhi Gang) Some problems on the natural partial order of BCI-algebras. I. (Chinese. Chinese summary) **94b:06024**
— Subcategories of the category BCI. (Chinese)
Hu, Zhi Gang *see* **Hu, Qing Ping, 94b:06024**
Huang, Yi Sheng[2] (*with* Chen, Zhao Mu) On J-semisimplicity of S-IBCK-algebras. (English summary)
— *see also* **Chen, Zhao Mu, 94d:06045**
Jiang, Hao J-extensions of BCK-algebras. (Chinese. English and Chinese summaries) **94e:06013**
— Atlas of proper BCI-algebras of order $n \leq 5$. (English summary) **94c:06026**
— Generalized Iseki's extension of BCK-algebras. (English summary) **94d:06047**
— A note on proper BCI-algebras of order four. (English summary)
Jun, Young Bae (*with* Roh, Eun Hwan) Characterizations of commutative BCI-algebras.
— (*with* Roh, Eun Hwan) On the BCI-G part of BCI-algebras. (English summary)
— A note on nil ideals in BCI-algebras. (English summary)
— (*with* Meng, Jie; Roh, Eun Hwan) On nil ideals in BCI-algebras. (English summary)
— Fuzzy topological BCK-algebras. (English summary)
— (*with* Meng, Jie) A characterization of closed fuzzy ideals in finite BCI-algebras. (English summary)
— *see also* **Hoo, C. S., 94f:06020**
Meng, Jie Commutative ideals in BCK-algebras. (Chinese. English summary) **94m:06022**
— (*with* Xin, Xiao Long) Implicative BCI-algebras. (Chinese. English summary)
— A note on filters in BCK-algebras. (Chinese. English summary) **94e:06014**
— (*with* Wei, Shi Ming) Periods of elements in BCI-algebras. (English summary) **94c:06027**
— (*with* Wei, Shi Ming) Periodic BCI-algebras and closed ideals. (English summary) **94c:06028**
— On a problem in BCK-algebras. (English summary) **94k:06012**
— (*with* Xin, Xiao Long) A problem in BCI-algebras. (English summary)
— (*with* Xin, Xiao Long) Positive implicative BCI-algebras. (Chinese. English and Chinese summaries)
— *see also* **Jun, Young Bae**
Peng, Jiu Qi Normal forms of quasicommutative BCI- and BCK-algebras. (Chinese. English and Chinese summaries)
— *see also* **Zhang, Xiao Hong**
Raftery, J. G. *see* **Blok, W. J., 94c:06023**
Roh, Eun Hwan *see* **Jun, Young Bae**
Thaheem, A. B. *see* **Aslam, M.; et al., 94g:06030**
Wei, Shi Ming *see* **Meng, Jie, 94c:06027** *and* **94c:06028**
Xie, Kai Duan Antiweakly simple BCI-algebras. (Chinese. English and Chinese summaries)
Xie, Ping Characterizations of the structure of two classes of BCI-algebras. (Chinese. English summary)
Xin, Xiao Long Free BCH-algebras. (Chinese. English and Chinese summaries)
— *see also* **Meng, Jie**
Zhang, Qun A Lagrange theorem for BCI-algebras. (English summary) **94b:06025**
— Regular BCI-algebras. (English summary)
Zhang, Xiao Hong (*with* Peng, Jiu Qi) A class of ideal subalgebras of BCI-algebras. (Chinese. English and Chinese summaries)
Zhao, Xian Zhong Finite implicative BCK-algebras. (Chinese. English summary) **94m:06023**

Items with secondary classifications in 06F35

Ahmad, B. Fuzzy BCI-algebras. (English summary)
Hu, Bao Qing Equivalence of fuzzy implication algebras and bounded BCK-algebras. (Chinese)
Kabziński, Jacek K. Abelian groups and identity connective.
— On the unique axiom of BCII class.
Liao, Zu Wei Minimal axiomatic system of fuzzy logical algebra. (English summary) **94d:04011**

06F99 None of the above, but in this section

Easdown, David Biordered sets of rings. (English summary) **94e:06015**
Hanumanthachari, J. (*with* Vasanthi, T.) On the additive and multiplicative structures of certain classes of ordered semirings. **94g:06031**
Konstantinidou, M. Sur une relation d'équivalence dans des hyperstructures ordonnées. [On an equivalence relation in ordered hyperstructures] **94e:06016**
Vasanthi, T. *see* **Hanumanthachari, J., 94g:06031**
Zhang, Kun Long On discrete l-loops. (English summary) **94m:06024**

Items with secondary classifications in 06F99

Acharyulu, Gomatam V. S. Matrix representable so-rings. **94b:16048**
Lawson, Mark V. Congruences on ordered groupoids. **94i:20102**
Vaggione, Diego J. Sheaf representation of lattice-ordered structures. (Spanish) **94a:08002**

08–XX General algebraic systems

08–01 Instructional exposition (textbooks, tutorial papers, etc.)

Wechler, Wolfgang ★ Universal algebra for computer scientists. **94a:08001**

Items with secondary classifications in 08–01

Evseev, A. E. *see* **Lyapin, E. S., 94j:08001**
Lyapin, E. S. (*with* Evseev, A. E.) ★ Частичные алгебраические действия. (Russian. Russian summary) [Partial algebraic actions] **94j:08001**

08–02 Research exposition (monographs, survey articles)

Davey, Brian A. Duality theory on ten dollars a day. (English summary) **94m:08001**
Pinus, A. G. ★ Boolean constructions in universal algebras. (English summary) **94g:08001**
Pixley, Alden F. Functional and affine completeness and arithmetical varieties. (English summary) **94f:08001**
Smirnov, D. M. ★ Многообразия алгебр. (Russian. Russian summary) [Varieties of algebras] **94d:08001**

Items with secondary classifications in 08–02

Burmeister, Peter Partial algebras—an introductory survey. (English summary) **94f:08006**
Evseev, A. E. *see* **Lyapin, E. S., 94j:08001**
Lyapin, E. S. (*with* Evseev, A. E.) ★ Частичные алгебраические действия. (Russian. Russian summary) [Partial algebraic actions] **94j:08001**

08–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 08–04

Berman, Joel D. (*with* Kiss, Emil W.; Pröhle, Péter; Szendrei, Ágnes) The set of types of a finitely generated variety. (English summary) **94b:08003**
Kiss, Emil W. *see* **Berman, Joel D.; et al., 94b:08003**
Pröhle, Péter *see* **Berman, Joel D.; et al., 94b:08003**
Szendrei, Ágnes *see* **Berman, Joel D.; et al., 94b:08003**

08–06 Proceedings, conferences, collections, etc.

(Rosenberg, Ivo G.) *see* **Algebras and orders, 94b:08001**
(Sabidussi, Gert) *see* **Algebras and orders, 94b:08001**

Items listed otherwise than by author

Algebras and orders ★ Algebras and orders. **94b:08001**
Montreal, PQ ★ Algebras and orders. **94b:08001**
NATO Advanced Study Institute: Algebras and Orders ★ Algebras and orders. **94b:08001**

08Axx Algebraic structures [see also 03C05]

Odelstad, Jan ★ Invariance and structural dependence. **94m:08002**

08A02 Relational systems, laws of composition

Lin, Yi[3] Some results related to the concepts of products.
Meletiou, Gerasimos C. Median algebras acting on sets. (English summary) **94b:08002**
Mesiar, Radko (*with* Rybárik, Ján) Pseudo-arithmetical operations. (English summary) **94h:08001**
Rybárik, Ján *see* **Mesiar, Radko, 94h:08001**
Šlapal, Josef Cardinal arithmetic of general relational systems. **94c:08001**
Topencharov, Vladimir V. Composition générale des relations. (English summary) [General composition of relations] **94f:08002**

Items with secondary classifications in 08A02

Alagić, Mara Relations with I-structure in categories with pullbacks. (English summary) **94h:18004**
Bandelt, Hans-Jürgen (*with* Meletiou, Gerasimos C.) The algebra of majority consensus. (English summary) **94b:08008**
De Baets, B. (*with* Kerre, E. E.) A revision of Bandler-Kohout compositions of relations. (English summary) **94d:04001**
Diener, Karl-Heinz On the transitive hull of a κ-narrow relation. (English summary) **94m:04001**
Gniłka, Stanisław ★ Extended topologies and relational systems. (English and Polish summaries) **94m:54004**
Ionin, V. K. On the definition of physical structures. (English summary) **94b:20068**
Johnson, Michael Sterling James (*with* Sun, Shu Hao) Remarks on representations of universal algebras by sheaves of quotient algebras. (English summary) **94a:06018**
Karásek, Jiří On a modification of relational axioms. **94b:04003**
Kerre, E. E. *see* **De Baets, B., 94d:04001**
Korec, Ivan The $3x + 1$ problem, generalized Pascal triangles and cellular automata. (English summary) **94g:11019**
Meletiou, Gerasimos C. *see* **Bandelt, Hans-Jürgen, 94b:08008**
Morvan, Michel (*with* Nourine, Lhouari) Sur la distributivité du treillis des antichaînes maximales d'un ensemble ordonné. (English and French summaries) [Distributivity of the lattice of maximal antichains of an ordered set] **94b:06002**
Nourine, Lhouari *see* **Morvan, Michel, 94b:06002**
Pazdyka, Paweł Definability of models by means of existential formulas without identity. **94j:03075**
Šlapal, Josef Relations and topologies. **94b:54003**
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Brink, Chris Power structures. (English summary) **94g:08002**

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Mala, J. Relators generating the same generalized topology. **94b:54083**
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Puczyłowski, E. R. On general theory of radicals. **94b:16028**
Száz, Árpád Inverse and symmetric relators. **94b:54082**

08A30 Subalgebras, congruence relations

Aglianò, Paolo (*with* Ursini, Aldo) Ideals and other generalizations of congruence classes. **94i:08001**
Berman, Joel D. (*with* Seif, Steven) An approach to tame congruence theory via subtraces. **94f:08003**
— (*with* Kiss, Emil W.; Pröhle, Péter; Szendrei, Ágnes) The set of types of a finitely generated variety. (English summary) **94b:08003**
Chajda, Ivan Algebras and varieties satisfying the congruence extension property. **94b:08004**
Duda, Jaromír Coherence and weak coherence in the square of algebras. **94e:08001**
— Coherence of diagonal subalgebras and factorable congruences. **94f:08004**
Kiss, Emil W. (*with* Valeriote, Matthew A.) Abelian algebras and the Hamiltonian property. (English summary) **94d:08002**
— *see also* **Berman, Joel D.; et al., 94b:08003**
Kogalovskiĭ, S. R. (*with* Soldatova, V. V.) Remarks on lattices of subalgebras of universal algebras. (Russian. Russian summary) (*see* **94d:00011**)
Liang, Zhi An On the radical classes in the variety of idempotent algebras. (English and Chinese summaries) **94h:08002**
Naumik, M. I. Congruences on a semigroup of zero linear relations. (Russian) (*see* **94j:00017**)
Pröhle, Péter *see* **Berman, Joel D.; et al., 94b:08003**
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Shchuchkin, N. A. Finitely generated nilpotent algebras. (Russian. Russian summary) **94b:08006**
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Uroşu, C. Quelques propriétés des congruences des algèbres primaires. (Romanian summary) [Some properties of congruences of primary algebras] (*see* **94j:00024**)
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Vaggione, Diego J. Sheaf representation of lattice-ordered structures. (Spanish) **94a:08002**
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— Irredundant φ-representations of algebras—existence and some uniqueness. (English summary) **94e:08002**
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Beazer, R. (*with* Sichler, J.) Congruence permutable extensions of distributive double p-algebras. (English summary) **94d:06029**
Czédli, Gábor Some nontrivial implications in congruence varieties. **94b:08016**
Figallo, Aldo V. On the congruences in four-valued modal algebras. (English summary) **94h:03130**
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Geyer, W. The class of lattices with $|L| = |\mathrm{Con}(L)|$. **94c:06012**
Grätzer, G. (*with* Schmidt, Elégius Tamás) On the congruence lattice of a Scott-domain. (English summary) **94c:06013**
— (*with* Lakser, Harry) Homomorphisms of distributive lattices as restrictions of congruences. II. Planarity and automorphisms. (English summary) **94m:06008**
Hansoul, G. (*with* Vrancken-Mawet, L.) Subalgebras of closure algebras. (English summary) **94d:06033**
Jordens, Olav Two equivalent definitions of a congruence on a finitary model in a quasivariety. (English summary) **94b:08019**
Kasymov, N. Kh. Positive algebras with countable congruence lattices. (Russian. Russian summary) **94d:03090**
Kogalovskiĭ, S. R. Congruence lattices of partial algebras. (Russian. Russian summary) (*see* **94f:00014**)
— (*with* Soldatova, V. V.) Remarks on congruence lattices of countable algebras. (Russian. Russian summary) (*see* **94f:00014**)
Kripalini, K. S. On the lattices of semigroup compactifications. II. (English summary) **94k:22002**
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Lashkhi, A. A. (*with* Gelashvili, T. M.) The fundamental theorem of affine geometry for modules and Lie algebras. (Russian and Georgian summaries) **94c:51013**
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Polyakov, E. A. A description of the congruences of the algebra of arithmetic functions with superposition and iteration operations. (Russian. Russian summary) **94g:11007**
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Stone, M. G. Endomorphism action on congruences. **94a:08004**
Uroşu, C. Quelques propriétés des congruences sur les algèbres partielles. (French summary) [Some properties of congruences on partial algebras] (*see* **94j:00025**)
Vrancken-Mawet, L. *see* **Hansoul, G., 94d:06033**
Zlatoš, P. On surjective kernels of partial algebras. (English summary) **94b:08012**

08A35 Automorphisms, endomorphisms

Głazek, K. Morphisms of general algebras without fixed fundamental operations. (English summary) **94e:08003**
Stone, M. G. Endomorphism action on congruences. **94a:08004**
Szabó, László Idempotent algebras with transitive automorphism groups. **94f:08005**

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Fountain, John B. (*with* Lewin, Andrew) Products of idempotent endomorphisms of an independence algebra of infinite rank. (English summary) **94i:20119**
Grätzer, G. (*with* Lakser, Harry) Homomorphisms of distributive lattices as restrictions of congruences. II. Planarity and automorphisms. (English summary) **94m:06008**
Lakser, Harry *see* **Grätzer, G., 94m:06008**
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08A40 Operations, polynomials, primal algebras

Bandelt, Hans-Jürgen (*with* Meletiou, Gerasimos C.) The algebra of majority consensus. (English summary) **94b:08008**
— Diagonal subalgebras and local polynomial functions of median algebras. (English summary) **94b:08009**
Banković, Dragić A new proof of Prešić's theorem on finite equations. (English summary) **94d:08003**
Bredikhin, D. A. On clones of operations on the set of partial one-to-one transformations. (Russian) (*see* **94j:00017**)
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Dudek, J. On Csákány's problem concerning affine spaces. **94c:08002**
Kaarli, Kalle On varieties generated by functionally complete algebras. (English summary) **94b:08010**
Kalman, J. A. Lattices of polynomials under substitution. **94a:08005**
Lakser, Harry A natural representation of partitions as terms of a universal algebra. (English summary) **94m:08003**
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Marchenkov, S. S. Maximal subalgebras in products of the Post iterative algebras $\mathfrak{P}_2$ and $\mathfrak{P}_3$. (Russian) **94d:08004**
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Głazek, K. Morphisms of general algebras without fixed fundamental operations. (English summary) **94e:08003**
Hazan, Simone Two properties of projective orders. (English summary) **94a:06003**
Hébert, Michel Sur les opérations partielles implicites et leur relation avec la surjectivité des épimorphismes. (English summary) [Implicit partial operations and their relation to surjectivity of epimorphisms] **94f:08007**
Heindorf, Lutz Some examples of nondualizable algebras. **94d:08011**
Humberstone, I. L. Zero-place operations and functional completeness, and the definition of new connectives. (English summary) **94h:03007**
Lashkia, V. Closures on finite algebras. (English summary) **94i:08003**
Meshchaninov, D. G. Second p-differences of p^o-valued logic functions. (Russian. Russian summary) **94g:03044**
Nelson, G. C. Model-theoretic properties in the variety generated by a primal algebra. (English summary) **94g:03066**
Nguen Van Khoa On the structure of self-dual closed classes of the three-valued logic P_3. (Russian. Russian summary) **94f:03027**
Taylor, Walter Abstract clone theory. (English summary) **94f:08018**
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Zádori, László Posets, near unanimity functions and zigzags. (English summary) **94a:06012**

08A45 Equational compactness

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Laradji, Abdellatif α-compactness of reduced products and filter quotients. **94j:16007**
Wehrung, Friedrich Boolean universes above Boolean models. (English summary) **94m:03063**

08A50 Word problems [see also 03D40, 06B25, 20F10, 68R15]

Pedersen, John Efficient solution of the word problem in slim varieties. (English summary) **94i:08002**
Shirayanagi, Kiyoshi Decision of algebra isomorphisms using Gröbner bases. (English summary) **94d:08005**

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Burroni, Albert Higher-dimensional word problems with applications to equational logic. (English summary) **94m:03070**
Crvenković, Siniša (*with* Madarász, Rozália Sz.) On Kleene algebras. (English summary) **94g:08009**
Dehornoy, Patrick The naming problem for left distributivity. (English summary) **94j:20059**
— A canonical ordering for free self-distributive systems. (English summary) **94k:06001**
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Žembery, Ivan On a variety of infinite algebras. **94b:08017**

08A55 Partial algebras

Burmeister, Peter (*with* Wojdyło, Bolesław) The meaning of basic category theoretical notions in some categories of partial algebras. II. Products and coproducts. **94c:08004**
— Partial algebras—an introductory survey. (English summary) **94f:08006**
— Tools for a theory of partial algebras. **94g:08005**
Evseev, A. E. *see* **Lyapin, E. S., 94j:08001**
Halušková, Emília (*with* Jakubíková-Studenovská, Danica) Partial monounary algebras with common closed quasi-endomorphisms. **94b:08011**
Hébert, Michel Sur les opérations partielles implicites et leur relation avec la surjectivité des épimorphismes. (English summary) [Implicit partial operations and their relation to surjectivity of epimorphisms] **94f:08007**
Jakubíková-Studenovská, Danica *see* **Halušková, Emília, 94b:08011**
Lyapin, E. S. (*with* Evseev, A. E.) ★ Частичные алгебраические действия. (Russian. Russian summary) [Partial algebraic actions] **94j:08001**
Monserrat, Miquel (*with* Rosselló-Llompart, Francesc; Torrens, Joan) Tensor products of partial algebras. (English summary) **94g:08006**
Palasiński, M. Remark on subdirect representation theorem for ECE-varieties of partial algebras. **94a:08007**
Rosselló-Llompart, Francesc *see* **Monserrat, Miquel; et al., 94g:08006**
Rudak, Leszek Algebraic characterization of conflict-free varieties of partial algebras. **94m:08004**
Torrens, Joan *see* **Monserrat, Miquel; et al., 94g:08006**
Uroşu, C. Sur les extensions des algèbres partielles. (French summary) [On extensions of partial algebras] (*see* **94j:00025**)
— Quelques propriétés des congruences sur les algèbres partielles. (French summary) [Some properties of congruences on partial algebras] (*see* **94j:00025**)
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Zlatoš, P. On surjective kernels of partial algebras. (English summary) **94b:08012**

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Cury, F. Complétion et complétude selon H. Andréka et I. Németi. [Completion and completeness according to H. Andréka and I. Németi] **94f:18006**
Elvang-Gøransson, Morten (*with* Owe, Olaf) A simple sequent calculus for partial functions. (English summary) **94h:03110**
Jarzembski, Grzegorz Programs in partial algebras. (English summary) **94h:68153**
Kogalovskiĭ, S. R. Congruence lattices of partial algebras. (Russian. Russian summary) (*see* **94f:00014**)
Owe, Olaf *see* **Elvang-Gøransson, Morten, 94h:03110**

08A60 Unary algebras

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Halušková, Emília (*with* Jakubíková-Studenovská, Danica) Partial monounary algebras with common closed quasi-endomorphisms. **94b:08011**
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Zlatoš, P. On surjective kernels of partial algebras. (English summary) **94b:08012**

08A62 Finitary algebras

Artamonov, V. A. (*with* Nikitin, A. N.) Artinian $(2, n)$-rings. (Russian) **94f:08008**
Cīrulis, Jānis Superdiagonals of universal algebras. (English, Russian and Latvian summaries) (*see* **94b:00031**)
Lashkia, V. Closures on finite algebras. (English summary) **94i:08003**
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Kiss, Emil W. (*with* Valeriote, Matthew A.) Abelian algebras and the Hamiltonian property. (English summary) **94d:08002**
Valeriote, Matthew A. *see* **Kiss, Emil W., 94d:08002**

08A65 Infinitary algebras

Items with secondary classifications in 08A65

Diener, Karl-Heinz On the natural order relation in Peano algebras with finitary or infinitary operations.

Herrlich, Horst On the failure of Birkhoff's theorem for locally small based equational categories of algebras. (French summary) **94m:08005**

08A70 Applications of universal algebra in computer science

Bloom, Stephen L. (*with* Ésik, Zoltán) Iteration algebras. (English summary) **94b:08013**
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Gécseg, F. (*with* Jürgensen, H.) Algebras with dimension. (English summary) **94h:08004**
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Leiss, Hans Towards Kleene algebra with recursion. (English summary) (*see* **94c:68001**)
Manes, Ernest G. Adas and the equational theory of if-then-else. (English summary) **94d:08006**
Meinke, Karl Equational specification of abstract types and combinators. (English summary) (*see* **94c:68001**)
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Asveld, Peter R. J. An algebraic approach to incomparable families of formal languages. (English summary) **94i:68151**
Barbar, Kablan Attributed tree grammars. (English summary) **94m:68109**
Burmeister, Peter Partial algebras—an introductory survey. (English summary) **94f:08006**
Gobechiya, M. I. (*with* Greenglaz, L. Ja.; Plotkin, B. I.) On identities and varieties of biautomata. (Russian. Russian summary) **94e:68127**
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Guessarian, Irène Trees and algebraic semantics. **94f:68124**
Henry, C. Propriétés de permanence et existence de réalisations minimales pour les algèbres multisortes. (French summary) [Permanence properties and existence of minimal realizations for many-sorted algebras] **94c:18008**
Hesselink, Wim H. Processes and formalisms for unbounded choice. **94j:68062**
Jarzembski, Grzegorz Programs in partial algebras. (English summary) **94h:68153**
Mégrelis, Aristide Partial algebra + order-sorted algebra = galactic algebra. (English summary) (*see* **94h:68009**)
Meseguer, José (*with* Goguen, Joseph A.) Order-sorted algebra solves the constructor-selector, multiple representation, and coercion problems. (English summary) **94e:68123**
Monserrat, Miquel (*with* Rosselló-Llompart, Francesc; Torrens, Joan) A note on information systems associated to termal algebras. (English summary) **94i:68271**
Niehren, Joachim (*with* Podelski, Andreas) Feature automata and recognizable sets of feature trees. (English summary) **94f:68064**
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Qian, Zhenyu An algebraic semantics of higher-order types with subtypes. (English summary) **94m:68134**
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Ringeissen, Christophe Unification in a combination of equational theories with shared constants and its application to primal algebras. (English summary) **94i:68255**
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Steinby, Magnus A theory of tree language varieties. **94a:68076**
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Wechler, Wolfgang ★ Universal algebra for computer scientists. **94a:08001**

08A99 None of the above, but in this section

Šlapal, Josef A note on diagonality of algebras. **94g:08007**
Yin, Dong Sheng A study on the class-functions of algebraic structures. (Chinese. English and Chinese summaries) **94h:08005**

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Shmatkov, V. D. Incidence algebras over lattices. (Russian) **94g:06010**

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Universal algebra The Jónsson Symposium problem sessions.

08Bxx Varieties

Items with secondary classifications in 08Bxx

Smirnov, D. M. ★ Многообразия алгебр. (Russian. Russian summary) [Varieties of algebras] **94d:08001**
Weaver, Nikolai Generalized varieties. **94b:03060**

08B05 Equational logic, Mal'cev (Mal'tsev) conditions

Bloom, Stephen L. (*with* Ésik, Zoltán) Equational axioms for regular sets. (English summary) **94f:08009**
Cacioppo, Robert Non-finitely based pseudovarieties and inherently non-finitely based varieties. **94g:08008**
Chajda, Ivan Test algebras for Mal'cev conditions. **94f:08010**
Crvenković, Siniša (*with* Madarász, Rozália Sz.) On Kleene algebras. (English summary) **94g:08009**
Duda, Jaromír Subcoherent algebras. **94f:08011**
Dziobiak, Wiesław An answer to a question of D. Pigozzi. **94e:08004**
Ésik, Zoltán *see* **Bloom, Stephen L., 94f:08009**
Fried, Ervin (*with* Lasker, H.; Padmanabhan, R.) The number of varieties of pure majority algebras. **94f:08012**
Halkowska, K. A presentation theorem for algebras from varieties defined by P-compatible identities. **94b:08014**
Herrlich, Horst On the failure of Birkhoff's theorem for locally small based equational categories of algebras. (French summary) **94m:08005**
Kabziński, Jacek K. On the unique axiom of BCII class.
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Newrly, Norbert Lattices of equational theories are congruence lattices of monoids with one additional unary operation. (English summary) **94g:08010**
Padmanabhan, R. *see* **Fried, Ervin; et al., 94f:08012**
Schweigert, Dietmar Hyperidentities. (English summary) **94m:08006**

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Aglianò, Paolo (*with* Ursini, Aldo) Ideals and other generalizations of congruence classes. **94i:08001**
Baader, Franz Unification in varieties of completely regular semigroups. (English summary) **94j:68261**
Choban, M. M. The structure of locally compact algebras. (English summary) **94e:08007**
Denecke, K. (*with* Lau, D.; Pöschel, R.; Schweigert, Dietmar) Solidifiable clones. **94g:08003**
— (*with* Wismath, Shelly L.) Solid varieties of semigroups. (English summary) **94m:20117**
Gobechiya, M. I. (*with* Greenglaz, L. Ja.; Plotkin, B. I.) On identities and varieties of biautomata. (Russian. Russian summary) **94e:68127**
Greenglaz, L. Ja. *see* **Gobechiya, M. I.; et al., 94e:68127**
Idziak, Paweł M. Elementary theory of finite equivalential algebras. **94c:03042**
Kisielewicz, Andrzej (*with* Newrly, Norbert) Polynomial density of commutative semigroups. (English summary) **94g:20088**
— Varieties of commutative semigroups. (English summary) **94j:20065**
Krasil'nikov, A. N. On the finiteness of the basis of identities of some varieties of associative rings. (Russian. Russian summary) (*see* **94d:00011**)
Lakser, Harry The modular commutator via the Gumm terms. (English summary) **94f:08015**
Lau, D. *see* **Denecke, K.; et al., 94g:08003**
Leiss, Hans Towards Kleene algebra with recursion. (English summary) (*see* **94c:68001**)
Manes, Ernest G. Adas and the equational theory of if-then-else. (English summary) **94d:08006**
McKenzie, Ralph (*with* Świerczkowski, Stanisław) Noncovering in the interpretability lattice of equational theories. (English summary) **94f:08016**
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McNulty, George F. A field guide to equational logic. **94g:03065**
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Rautenberg, Wolfgang On reduced matrices. (English summary) **94f:03015**
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Schweigert, Dietmar Hybrid terms and sentences. (English summary) **94j:03072**
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Słomiński, Józef On the satisfiabilities and varieties for abstract algebras induced by the cones and functor dynamics. (English summary) **94m:08007**
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08B10 Congruence modularity, congruence distributivity

Aglianò, Paolo Prime spectra in modular varieties. (English summary) **94k:08001**
Czédli, Gábor How are diamond identities implied in congruence varieties? **94f:08013**
Kearnes, Keith A. Congruence permutable and congruence 3-permutable locally finite varieties. (English summary) **94f:08014**
Lakser, Harry The modular commutator via the Gumm terms. (English summary) **94f:08015**
Pinus, A. G. Varieties whose skeletons are lattices. (Russian. Russian summary) **94b:08015**
Radelecki, Sándor The congruence lattice of implication algebras. (English summary) **94d:08007**

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Chajda, Ivan Algebras and varieties satisfying the congruence extension property. **94b:08004**
Czédli, Gábor Some nontrivial implications in congruence varieties. **94b:08016**
Fried, Ervin (*with* Lasker, H.; Padmanabhan, R.) The number of varieties of pure majority algebras. **94f:08012**
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Pinus, A. G. Boolean constructions in universal algebra. (Russian. Russian summary) **94i:08004**
Reĭbol'd, A. V. Wann sind Kongruenzklassenverbände subdirekt reduzibel? (German summary) [When are lattices of congruence classes subdirectly reducible?] **94b:08005**
Sequeira, M. Double MS_n-algebras and double $K_{n,m}$-algebras. (English summary) **94f:06014**
Zádori, László Posets, near unanimity functions and zigzags. (English summary) **94a:06012**

08B15 Lattices of varieties

Czédli, Gábor Some nontrivial implications in congruence varieties. **94b:08016**
Gorsler, B. (*with* Thron, R.) On a classification of modules using generalized identities. **94d:08008**
Haviar, Alfonz V-lattices of varieties of algebras of different types. **94g:08011**

McKenzie, Ralph (*with* Świerczkowski, Stanisław) Noncovering in the interpretability lattice of equational theories. (English summary) **94f:08016**
— On the covering relation in the interpretability lattice of equational theories. (English summary) **94f:08017**
Świerczkowski, Stanisław *see* **McKenzie, Ralph, 94f:08016**
Taylor, Walter Abstract clone theory. (English summary) **94f:08018**
Thron, R. *see* **Gorsler, B., 94d:08008**

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Auinger, Karl Bifree objects in e-varieties of strict orthodox semigroups and the lattice of strict orthodox $*$-semigroup varieties. **94a:20102**
Bredikhin, D. A. The lattice of subvarieties of a variety of groupoids associated with involutory semilattices. (Russian. Russian summary) (*see* **94d:00011**)
Darnel, Michael R. Varieties minimal over representable varieties of lattice-ordered groups. (English summary) **94e:06009**
Denecke, K. (*with* Wismath, Shelly L.) Solid varieties of semigroups. (English summary) **94m:20117**
Ershova, T. A. *see* **Volkov, Michael V., 94g:20085**
Jipsen, Peter (*with* Rose, Henry) ★ Varieties of lattices. (English summary) **94d:06022**
Mishchenko, S. P. Varieties of Lie algebras that do not contain a three-dimensional simple algebra. (Russian. Russian summary) **94c:17011**
— Varieties of solvable Lie algebras with a distributive lattice of subvarieties. (Russian. Russian summary) **94c:17012**
Nikolaev, Rusalin *see* **Popov, Angel, 94c:16037**
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Repnitskiĭ, V. B. On finite lattices which are embeddable in subsemigroup lattices. **94c:20101**
Roiz, E. N. On a semilattice translation in the lattice of quasivarieties of semigroups. (Russian) (*see* **94j:00017**)
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Volkov, Michael V. (*with* Ershova, T. A.) The lattice of varieties of semigroups with completely regular square. (English summary) **94g:20085**
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Wesołowski, T. Varieties of locally Boolean algebras. (English summary) **94d:06037**
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08B20 Free algebras

Diener, Karl-Heinz On the natural order relation in Peano algebras with finitary or infinitary operations.
Ploščica, Miroslav A duality for isotropic median algebras. (English summary) **94e:08005**
Žembery, Ivan On a variety of infinite algebras. **94b:08017**
— Free algebras on a fixed set. **94d:08009**

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Auinger, Karl Bifree objects in e-varieties of strict orthodox semigroups and the lattice of strict orthodox $*$-semigroup varieties. **94a:20102**
Chajda, Ivan Test algebras for Mal'cev conditions. **94f:08010**
Cīrulis, Jānis Superdiagonals of universal algebras. (English, Russian and Latvian summaries) (*see* **94b:00031**)
Freese, Ralph Lectures on free lattices. (English summary) **94m:06010**
Gorsler, B. (*with* Thron, R.) On a classification of modules using generalized identities. **94d:08008**
Shul'geifer, E. G. On the projectivity of free objects. (Russian) **94j:18001**
Thron, R. *see* **Gorsler, B., 94d:08008**
Wechler, Wolfgang ★ Universal algebra for computer scientists. **94a:08001**

08B25 Products, amalgamated products, and other kinds of limits and colimits [see also 18A30]

Heindorf, Lutz Compact algebras in discriminator varieties. **94e:08006**
Pinus, A. G. Boolean constructions in universal algebra. (Russian. Russian summary) **94i:08004**
Weaver, Nikolai Classes closed under isomorphisms, retractions, and products. **94c:08005**

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Cherri, Mona (*with* Powell, Wayne B.) Strong amalgamations of lattice ordered groups and modules. (English summary) **94a:06033**
Jipsen, Peter (*with* Rose, Henry) ★ Varieties of lattices. (English summary) **94d:06022**
Powell, Wayne B. *see* **Cherri, Mona, 94a:06033**
Rose, Henry *see* **Jipsen, Peter, 94d:06022**
Walendziak, Andrzej The uniqueness theorem for finite φ-representations of algebras. (English summary) **94a:08003**
Wehrung, Friedrich Restricted injectivity, transfer property and decompositions of separative positively ordered monoids. (English summary) **94m:06017**

08B26 Subdirect products and subdirect irreducibility

Csákány, B. (*with* Szederkényi, A.) Varieties generated by finite homogeneous algebras. **94h:08006**
Płonka, J. Subdirectly irreducible algebras in varieties defined by externally compatible identities. **94d:08010**
Szederkényi, A. *see* **Csákány, B., 94h:08006**

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Pałasiński, M. Remark on subdirect representation theorem for ECE-varieties of partial algebras. **94a:08007**
Pinus, A. G. Boolean constructions in universal algebra. (Russian. Russian summary) **94i:08004**
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Simons, G. E. Finite rings in varieties with definable principal congruences. (English summary) **94i:16011**
Walendziak, Andrzej A common generalization of subdirect and direct product of algebras. (English summary) **94b:08007**
— The uniqueness theorem for finite φ-representations of algebras. (English summary) **94a:08003**

08B30 Injectives, projectives

Items with secondary classifications in 08B30

Almada, Teresa On injectives in some varieties of Ockham algebras. **94m:06012**
Wehrung, Friedrich Restricted injectivity, transfer property and decompositions of separative positively ordered monoids. (English summary) **94m:06017**

08B99 None of the above, but in this section

Graczyńska, Ewa EIS for nilpotent shifts of varieties. **94b:08018**
— A note on normal shifts of solid varieties. (English summary)

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Adams, M. E. (*with* Beazer, R.) The variety of double Heyting algebras is congruence uniform. **94c:06017**
Beazer, R. *see* **Adams, M. E., 94c:06017**
Berman, Joel D. (*with* Kiss, Emil W.; Pröhle, Péter; Szendrei, Ágnes) The set of types of a finitely generated variety. (English summary) **94b:08003**
Davey, Brian A. Duality theory on ten dollars a day. (English summary) **94m:08001**
Gardner, B. J. (*with* Osborn, J. Marshall; Shestakov, I. P.) Varieties and tensor products. **94c:17001**
Hart, Bradd (*with* Pillay, Anand; Starchenko, S. S.) Triviality, NDOP and stable varieties. (English summary) **94h:03056**
— (*with* Starchenko, S. S.; Valeriote, Matthew A.) Vaught's conjecture for varieties. (English summary) **94e:03036**
Johnston, K. G. Existence varieties with lattices of regular subsemigroups. (English summary) **94d:20082**
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Sapir, M. V. Residually finite semigroups in varieties. (English summary) **94e:20082**
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Volkov, Michael V. Varieties of associative rings in which all the critical rings are basis rings. (Russian. English and Russian summaries) **94a:16047**

08Cxx Other classes of algebras

08C05 Categories of algebras [see also 18C05]

Bargenda, H. W. (*with* Brink, Chris; Vajner, Vaclav) Categorical aspects of power algebras. (English summary) **94g:08012**
Brink, Chris *see* **Bargenda, H. W.; et al., 94g:08012**
Safuanov, I. S. Affine categories that are varieties of universal algebras. (Russian. Russian summary) **94i:08005**
Słomiński, Józef On the satisfiabilities and varieties for abstract algebras induced by the cones and functor dynamics. (English summary) **94m:08007**
Vajner, Vaclav *see* **Bargenda, H. W.; et al., 94g:08012**

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Cīrulis, Jānis Superdiagonals of universal algebras. (English, Russian and Latvian summaries) (*see* **94b:00031**)
Cury, F. Complétion et complétude selon H. Andréka et I. Németi. [Completion and completeness according to H. Andréka and I. Németi] **94f:18006**
Pinus, A. G. Boolean constructions in universal algebra. (Russian. Russian summary) **94i:08004**
Reiterman, Jan Concrete full embeddings into categories of algebras and coalgebras. (English summary) **94m:18007**
Rozenberg, S. M. Specialized relation algebras and Halmos algebras. (Russian. Russian summary) **94i:03121**
Shul'geifer, E. G. On the projectivity of free objects. (Russian) **94j:18001**

08C10 Axiomatic model classes [see also 03Cxx, in particular 03C60]

Gil'man, E. A. A sufficient indecomposability condition in lattices of universal classes. (Russian) (*see* **94j:00017**)

Items with secondary classifications in 08C10

Wechler, Wolfgang ★ Universal algebra for computer scientists. **94a:08001**

08C15 Quasivarieties

Adams, M. E. (*with* Dziobiak, Wiesław) Q-universal quasivarieties of algebras. **94f:08019**
Choban, M. M. The structure of locally compact algebras. (English summary) **94e:08007**
Czelakowski, Janusz A note on the extension principle for relatively congruence-distributive quasivarieties. **94a:08008**
Dziobiak, Wiesław *see* **Adams, M. E., 94f:08019**
Font i Llovet, Josep Ma. (*with* Rodríguez Pérez, Gonzalo) A note on Sugihara algebras. (English summary) **94a:08009**
Gaitan, Hernando Quasivarieties of distributive p-algebras. (English summary) **94a:08010**
Heindorf, Lutz Some examples of nondualizable algebras. **94d:08011**
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Items with secondary classifications in 08C15

Adaricheva, K. V. (*with* Dziobiak, Wiesław; Gorbunov, V. A.) Finite atomistic lattices that can be represented as lattices of quasivarieties. (English summary) **94a:06019**
Dziobiak, Wiesław *see* **Adaricheva, K. V.; et al., 94a:06019**
Gaitan, Hernando Quasivarieties of Wajsberg algebras. (English summary) **94b:03047**
Gorbunov, V. A. *see* **Adaricheva, K. V.; et al., 94a:06019**
Hart, Bradd (*with* Pillay, Anand; Starchenko, S. S.) Triviality, NDOP and stable varieties. (English summary) **94h:03056**
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Shakhova, S. A. On the quasivariety generated by a finite p-group. (Russian) **94f:20053**
Starchenko, S. S. *see* **Hart, Bradd; et al., 94h:03056**

08C99 None of the above, but in this section

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Cacioppo, Robert Non-finitely based pseudovarieties and inherently non-finitely based varieties. **94g:08008**
Weaver, Nikolai Generalized varieties. **94b:03060**
— Classes closed under isomorphisms, retractions, and products. **94c:08005**

11–XX Number theory

11–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 11–00

(Alexander, Carol) *see* **Handbook: Applicable mathematics, 94j:00005**
(Ledermann, Walter) *see* **Handbook: Applicable mathematics, 94j:00005**
(Lloyd, Emlyn) *see* **Handbook: Applicable mathematics, 94j:00005**
(Vajda, Steven) *see* **Handbook: Applicable mathematics, 94j:00005**

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Handbook:
Applicable mathematics ★ Handbook of applicable mathematics. Supplement. **94j:00005**

11–01 Instructional exposition (textbooks, tutorial papers, etc.)

van der Blij, F. Analysis aids number theory. (Dutch) **94d:11001**
— Well-known real numbers. (Dutch) **94j:11001**
Gramain, François Les degrés des nombres algébriques $\cos(2\pi/n)$ et $\sin(2\pi/n)$ et la transcendance de π. [The degrees of the algebraic numbers $\cos(2\pi/n)$ and $\sin(2\pi/n)$ and the transcendence of π] **94m:11001**
Jones, Gareth A. $6/\pi^2$. **94m:11002**
Ribenboim, Paulo Prime number records. (Italian. English and Italian summaries) **94g:11001**

Items with secondary classifications in 11–01

(A'Campo, Annette) *see* **Artin, Michael, 94k:00001**
Artin, Michael ★ Algebra. (German. German summary) **94k:00001**
Beukers, Frits Fermat's conjecture: recent results. (Dutch) **94f:11018**
Busam, Rolf *see* **Freitag, Eberhard, 94j:30001**
(Carrara, Mario) *see* **Wells, David Graham, 94f:00006**
Freitag, Eberhard (*with* Busam, Rolf) ★ Funktionentheorie. (German. German summary) [Function theory] **94j:30001**
Giblin, Peter ★ Primes and programming. (English summary) **94j:11128**
Honsberger, Ross ★ Математические изюминки. (Russian) [Mathematical morsels] **94g:00001**
Hsiung, C. Y. ★ Elementary theory of numbers. **94b:11005**
(Inaudi, Domenico) *see* **Wells, David Graham, 94f:00006**
Lorenz, Falko ★ Einführung in die Algebra. Teil I. (German. German summary) [Introduction to algebra. Part I] **94d:00001**
Marchisotto, Elena Anne Connections in mathematics: an introduction to Fibonacci via Pythagoras. **94g:01003**
Papp, F. J. $\sqrt{2}$ is irrational. (English summary) **94k:11081**
Rajwade, A. R. ★ Squares. (English summary) **94m:11047**
Roberts, Joe ★ Lure of the integers. **94e:00004**
Sándor, J. (*with* Sivaramakrishnan, R.) The many facets of Euler's totient. III. An assortment of miscellaneous topics. (English summary) **94i:11007**
(Savin, A. P.) *see* **Honsberger, Ross, 94g:00001**
(Savina, L. A.) *see* **Honsberger, Ross, 94g:00001**
Sivaramakrishnan, R. *see* **Sándor, J., 94i:11007**
Wells, David Graham ★ Numeri memorabili. (Italian. Italian summary) [Memorable numbers] **94f:00006**

Items listed otherwise than by author

Dictionary:
Mathematically curious numbers *see* **Wells, David Graham, 94f:00006**

11–02 Research exposition (monographs, survey articles)

Erdős, Paul Some of my forgotten problems in number theory. **94b:11001**
Faltings, Gerd Recent progress in Diophantine geometry. (English summary) (*see* **94j:00018**)
Karatsuba, A. A. ★ Basic analytic number theory. **94a:11001**
(Nathanson, Melvyn B.) *see* **Karatsuba, A. A., 94a:11001**
Schinzel, Andrzej Progress in number theory during the years 1989–1992. **94m:11003**

Items with secondary classifications in 11–02

Grootendorst, A. W. Introduction. (Dutch) **94i:11001**
Ivić, Aleksandar ★ Lectures on mean values of the Riemann zeta function. **94g:11061**
Murty, Maruti Ram Preface. **94c:11038**

11–03 Historical (must also be assigned at least one classification number from Section 01)

Buraux-Bourgeois, Bénédicte L'analyse diophantienne chez Lagrange. [Diophantine analysis in Lagrange] **94j:11002**
Echeverría, Javier Observations, problems and conjectures in number theory—the history of the prime number theorem. **94d:11002**
(Gauss, Carl Friedrich) *see* **Waterhouse, William C., 94m:11004**
(Germain, Sophie) *see* **Waterhouse, William C., 94m:11004**
Goldstein, Catherine Descente infinie et analyse diophantienne: programmes de travail et mises en œuvre chez Fermat, Levi, Mordell et Weil. [Infinite descent and Diophantine analysis: work programs and implementations in Fermat, Levi, Mordell and Weil] **94g:11002**
Grootendorst, A. W. Introduction. (Dutch) **94i:11001**
Houzel, Christian Introduction a l'histoire de l'analyse diophantienne. [Introduction to the history of Diophantine analysis] **94j:11003**
Murty, V. Kumar Ramanujan and Harish-Chandra. **94e:11001**
Waterhouse, William C. A counterexample for Germain. **94m:11004**

Items with secondary classifications in 11–03

Abeles, Francine F. Charles L. Dodgson's geometric approach to arctangent relations for pi. (English, French and German summaries) **94k:01020**
Ağargün, Ahmet G. (*with* Fletcher, Colin R.) al-Fārisī and the fundamental theorem of arithmetic. (English, French and German summaries) **94m:01009**
Berndt, Bruce C. (*with* Bhargava, Srinivasamurthy) Ramanujan—for lowbrows. **94h:01034**
Bhargava, Srinivasamurthy *see* **Berndt, Bruce C., 94h:01034**
Bhattacharyya, Prodipeswar (*with* Sankar, S.) History of Waring's problem. (English summary) **94k:11115**
Campbell-Kelly, Martin Charles Babbage's table of logarithms (1827). (English summary) **94a:01018**
Cartier, Pierre Des nombres premiers à la géométrie algébrique (une brève histoire de la fonction zéta). [From primes to algebraic geometry (a brief history of the zeta function)] **94i:11060**
Cox, David A. Introduction to Fermat's last theorem. **94i:11022**
(Dieudonné, Jean Alexandre) *see* **Iwasawa, Kenkichi, 94f:11118**
(al-Fārisī, Kamāl al-Dīn) *see* **Ağargün, Ahmet G., 94m:01009**
Fletcher, Colin R. *see* **Ağargün, Ahmet G., 94m:01009**
Gramain, François Les degrés des nombres algébriques $\cos(2\pi/n)$ et $\sin(2\pi/n)$ et la transcendance de π. [The degrees of the algebraic numbers $\cos(2\pi/n)$ and $\sin(2\pi/n)$ and the transcendence of π] **94m:11001**
Gupta, Radha Charan On the remainder term in the Mādhava-Leibniz's series. **94f:01012**
— The first unenumerable number in Jaina mathematics.
Inkeri, Kustaa ★ Collected papers of Kustaa Inkeri. **94c:01038**
Iwasawa, Kenkichi Letter to J. Dieudonné. **94f:11118**
Kaplansky, Irving Quadratic reciprocity in Dickson's *History*.
(Metsänkylä, Tauno) *see* **Inkeri, Kustaa, 94c:01038**
Nastasi, Pietro (*with* Scimone, A.) Pietro Mengoli and the six-square problem. (English, French and Italian summaries) **94m:01017**
Piatetski-Shapiro, Ilya Étude on life and automorphic forms in the Soviet Union. (*see* **94j:01001**)
Pier, Jean-Paul Aspects de l'évolution des mathématiques entre 1900 et 1950. [Aspects of the evolution of mathematics between 1900 and 1950] **94k:01023**

von Plato, Jan Oresme's proof of the density of rotations of a circle through an irrational angle. (English, German and Italian summaries) **94h:01010**
(Ramanujar, Srinivasa) *see* **Berndt, Bruce C., 94h:01034**
(Ribenboim, Paulo) *see* **Inkeri, Kustaa, 94c:01038**
Sankar, S. *see* **Bhattacharyya, Prodipeswar, 94k:11115**
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Taisbak, Christian Marinus A tale of half sums and differences. Ancient tricks with numbers. **94m:01007**
Throu, W. J. Should the Pringsheim criterion be renamed the Śleszyński criterion? **94d:01030**

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Bibliography:
Inkeri, Kustaa *see* **Inkeri, Kustaa, 94c:01038**
Biography:
Inkeri, Kustaa *see* **Inkeri, Kustaa, 94c:01038**
Piatetski-Shapiro, Ilya Iosifovitch *see* **Piatetski-Shapiro, Ilya, (94j:01001)**
Collected Works:
Inkeri, Kustaa *see* **Inkeri, Kustaa, 94c:01038**
Correspondence:
Iwasawa, Kenkichi–Dieudonné, Jean Alexandre *see* **Iwasawa, Kenkichi, 94f:11118**
Diophantine analysis and algebraic geometry ★ Analyse diophantienne et géométrie algébrique. (French) [Diophantine analysis and algebraic geometry] **94e:01001**

11–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 11–04

Coppersmith, Don Solving homogeneous linear equations over GF(2) via block Wiedemann algorithm. (English summary) **94c:11124**

11–06 Proceedings, conferences, collections, etc.

(Arf, Cahit) *see* **Symposium: Algebra and Number Theory, 94f:11001**
(Bergum, G. E.) *see* **Applications of Fibonacci numbers, 94k:11001**
(David, Sinnou) *see* **Seminar: Number Theory, 94i:11005**
(Halter-Koch, Franz) *see* **Colloquium: Number Theory, 94b:11002**
(Horadam, Alwyn F.) *see* **Applications of Fibonacci numbers, 94k:11001**
(Jannsen, Uwe) *see* **Motives, 94i:11003** *and* **94i:11004**
(Kisilevsky, Hershy) *see* **Elliptic curves and related topics, 94i:11002**
(Kleiman, Steven) *see* **Motives, 94i:11003** *and* **94i:11004**
(Mazur, Barry C.) *see p*-**adic monodromy and the Birch and Swinnerton-Dyer conjecture, 94m:11006**
(Muller, R.) *see* **Smarandache, Florentin, 94m:11005**
(Murty, Maruti Ram) *see* **Elliptic curves and related topics, 94i:11002**
(Philippou, A. N.) *see* **Applications of Fibonacci numbers, 94k:11001**
(Serre, Jean-Pierre) *see* **Motives, 94i:11003** *and* **94i:11004**
Smarandache, Florentin ★ Unsolved problems related to Smarandache function. **94m:11005**
(Stevens, Glenn) *see p*-**adic monodromy and the Birch and Swinnerton-Dyer conjecture, 94m:11006**
(Tichy, Robert F.) *see* **Colloquium: Number Theory, 94b:11002**

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Boston, MA ★ *p*-adic monodromy and the Birch and Swinnerton-Dyer conjecture. **94m:11006**
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Number Theory ★ Österreichisch-Ungarisch-Slowakisches Kolloquium über Zahlentheorie. [Austrian-Hungarian-Slovakian Colloquium on Number Theory] **94b:11002**
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Fibonacci Numbers and their Applications ★ Applications of Fibonacci numbers. Vol. 5. **94k:11001**
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Contemporary Mathematics ★ *p*-adic monodromy and the Birch and Swinnerton-Dyer conjecture. **94m:11006**
Elliptic curves and related topics ★ Elliptic curves and related topics. **94i:11002**
Maria Trost ★ Österreichisch-Ungarisch-Slowakisches Kolloquium über Zahlentheorie. [Austrian-Hungarian-Slovakian Colloquium on Number Theory] **94b:11002**
Motives ★ Motives. **94i:11003**
— ★ Motives. **94i:11004**
Number theory ★ Théorie des nombres. Année 1991/1992. (French) [Number theory. 1991/1992] **94b:11003**
p-**adic monodromy and the Birch and Swinnerton-Dyer conjecture** ★ *p*-adic monodromy and the Birch and Swinnerton-Dyer conjecture. **94m:11006**
Paris ★ Séminaire de Théorie des Nombres, Paris, 1990–91. [Seminar on Number Theory, Paris, 1990–91] **94i:11005**
Proceedings of Symposia in Pure Mathematics ★ Motives. **94i:11003**
— ★ Motives. **94i:11004**
Progress in Mathematics ★ Séminaire de Théorie des Nombres, Paris, 1990–91. [Seminar on Number Theory, Paris, 1990–91] **94i:11005**
Research into zeta functions related to automorphic forms ★ Hokei keishiki to kanren-suru zēta kansū no kenkyū. (Japanese) [Research into zeta functions related to automorphic forms] **94b:11004**
Seattle, WA ★ Motives. **94i:11003**
— ★ Motives. **94i:11004**
Seminar:
Number Theory ★ Séminaire de Théorie des Nombres, Paris, 1990–91. [Seminar on Number Theory, Paris, 1990–91] **94i:11005**
Silivri ★ International Symposium on Algebra and Number Theory. **94f:11001**
St. Andrews ★ Applications of Fibonacci numbers. Vol. 5. **94k:11001**
Structure of automorphic *L*-**functions and their applications** ★ Hokeiteki *L* kansū no kōsei to sono ōyō. (Japanese) [Structure of automorphic *L*-functions and their applications] **94a:11002**
Summer course 1990: number theory and its applications ★ Vacantiecursus 1990: getallentheorie en haar toepassingen. (Dutch) [Summer course 1990: number theory and its applications] **94a:11003**
Symposium:
Algebra and Number Theory ★ International Symposium on Algebra and Number Theory. **94f:11001**
Research into Zeta Functions Related to Automorphic Forms ★ Hokei keishiki to kanren-suru zēta kansū no kenkyū. (Japanese) [Research into zeta functions related to automorphic forms] **94b:11004**
Structure of Automorphic *L*-**functions and their Applications** ★ Hokeiteki *L* kansū no kōsei to sono ōyō. (Japanese) [Structure of automorphic *L*-functions and their applications] **94a:11002**
Théorie des nombres ★ Théorie des nombres. Année 1991/1992. (French) [Number theory. 1991/1992] **94b:11003**
Unsolved problems related to Smarandache function *see* **Smarandache, Florentin, 94m:11005**
Workshop:
p-**adic Monodromy and the Birch and Swinnerton-Dyer Conjecture** ★ *p*-adic monodromy and the Birch and Swinnerton-Dyer conjecture. **94m:11006**

Items with secondary classifications in 11–06

(Kobayashi, Shoshichi) *see* **Symposium: Holomorphic Mappings, Diophantine Geometry and Related Topics, 94f:32004**

Items listed otherwise than by author

Birthday:
Kobayashi, Shoshichi ★ International Symposium "Holomorphic Mappings, Diophantine Geometry and Related Topics". **94f:32004**
Kyoto ★ International Symposium "Holomorphic Mappings, Diophantine Geometry and Related Topics". **94f:32004**
Recent topics in algebraic number theory ★ Daisūteki seisūron ni okeru saikin no wadai. (Japanese) [Recent topics in algebraic number theory] **94b:11106**
Summer course 1993: the real numbers ★ Vakantiecursus 1993: het reële getal. (Dutch) [Summer course 1993: the real numbers] **94f:00021**
Symposium:
Holomorphic Mappings, Diophantine Geometry and Related Topics ★ International Symposium "Holomorphic Mappings, Diophantine Geometry and Related Topics". **94f:32004**
Recent Topics in Algebraic Number Theory ★ Daisūteki seisūron ni okeru saikin no wadai. (Japanese) [Recent topics in algebraic number theory] **94b:11106**

11Axx Elementary number theory {For analogues in number fields, see 11R04.}

Hsiung, C. Y. ★ Elementary theory of numbers. **94b:11005**

11A05 Multiplicative structure; Euclidean algorithm; greatest common divisors

Narayanan, A. *see* **Ravichandran, V.**
Ravichandran, V. (*with* Narayanan, A.) On the criteria of divisibility. (English summary)
Smarandache, Florentin A function in the number theory. (English summary) **94m:11007**
— Some linear equations involving a function in the number theory. (English summary) **94m:11008**
Taylor, Richard A problem in combinatorial number theory. **94k:11002**

Items with secondary classifications in 11A05

Bourque, Keith (*with* Ligh, Steve) Matrices associated with classes of arithmetical functions. (English summary) **94k:11030**
Cai, Tian Xin On a conjecture of Graham. (Chinese. English and Chinese summaries) **94b:11020**
Ligh, Steve *see* **Bourque, Keith, 94k:11030**
Queen, Clifford S. Palindromes. (English summary) **94i:11014**

11A07 Congruences; primitive roots; residue systems

Bui Minh Phong Multiplicative functions satisfying a congruence property. V. **94m:11009**
Ehrlich, Amos Cycles in doubling diagrams mod m. **94k:11003**
Fabrykowski, J. On maximal residue difference sets modulo p. (English summary) **94b:11006**
Joó, I. Note on multiplicative functions satisfying a congruence property. II. **94i:11006**
Le, Mao Hua The number of solutions to a class of diagonal congruences modulo a prime. (Chinese. Chinese summary) **94a:11004**
Lenstra, Hendrik W., Jr. Generating units modulo an odd integer by addition and subtraction. **94g:11003**
Montgomery, Peter L. New solutions of $a^{p-1} \equiv 1 \pmod{p^2}$. (English summary) **94d:11003**
Pan, Wan Fu (*with* Zhang, Hui Min[2]) A general representation of the solutions to a system of congruences. (Chinese. English and Chinese summaries)
Rødseth, Øystein J. Sums of distinct residues mod p. **94j:11004**
Sun, Zhi Wei Solutions to two problems of Huhn and Megyesi. (Chinese. Chinese summary) **94c:11001**
Zhang, Hui Min[2] *see* **Pan, Wan Fu**

Items with secondary classifications in 11A07

Bui Minh Phong (*with* Jones, James P.) Quadratic residues and related problems. **94j:11005**
— *see also* **Joó, I., 94a:11006**
Burde, Klaus Differenzenschemata und Darstellungspolynome für Restklassenabbildungen modulo m. (German summary) [Difference schemes and representation polynomials for residue class mappings modulo m] **94k:11022**
Di Porto, Adina Nonexistence of even Fibonacci pseudoprimes of the 1st kind. **94d:11007**
Esseen, Carl-Gustav A stochastic model for primitive roots. **94m:11110**
Grytczuk, Aleksander Some remarks on Fermat numbers. **94k:11028**
Howard, F. T. Multinomial and q-binomial coefficients modulo 4 and modulo p. **94c:11019**
Jones, James P. *see* **Bui Minh Phong, 94j:11005**
Joó, I. (*with* Bui Minh Phong) Arithmetical functions with congruence properties. **94a:11006**
Jungnickel, Dieter On Lander's multiplier theorem for difference lists. (English summary) **94d:05016**
Kimball, William A. (*with* Webb, William A.) Congruence properties of Fibonacci numbers and Fibonacci coefficients modulo p^2. **94m:11021**
Radhika, D. *see* **Siva Rama Prasad, V.; et al., 94e:11006**
Rangamma, M. *see* **Siva Rama Prasad, V.; et al., 94e:11006**
Siva Rama Prasad, V. (*with* Rangamma, M.; Radhika, D.) Congruence properties of a class of arithmetic functions. (English summary) **94e:11006**
Wardlaw, William P. Euler's theorem for polynomials. **94b:11119**
Webb, William A. *see* **Kimball, William A., 94m:11021**

11A15 Power residues, reciprocity

Bui Minh Phong (*with* Jones, James P.) Quadratic residues and related problems. **94j:11005**
Burde, Klaus Ergänzungsgesetze. [Residuacity laws] **94g:11004**
Jones, James P. *see* **Bui Minh Phong, 94j:11005**
Sun, Zhi Hong Notes on quartic residue symbols and rational reciprocity laws. (Chinese. English summary) **94b:11007**

Items with secondary classifications in 11A15

Berg, Michael C. On a generalization of Hecke ϑ-functions and the analytic proof of higher reciprocity laws. (English summary) **94f:11031**
Helou, Charles Reciprocity for Jacobi sums. (English summary) **94f:11075**
Montgomery, Peter L. New solutions of $a^{p-1} \equiv 1 \pmod{p^2}$. (English summary) **94d:11003**
Pustyl'nikov, L. D. On the distribution of quadratic residues and nonresidues and on a dynamical system. (Russian) **94d:11073**

11A25 Arithmetic functions; related numbers; inversion formulas

Beck, Walter E. (*with* Najar, Rudolph M.) Reduced and augmented amicable pairs to 10^8. **94g:11005**
Bui Minh Phong On additive functions with values in a compact abelian group. **94e:11002**
— Arithmetic functions with regularity properties. **94k:11004**
— *see also* **Joó, I., 94a:11006**
Cohen, Graeme L. (*with* Hagis, Peter, Jr.) Arithmetic functions associated with the infinitary divisors of an integer. (English summary) **94c:11002**
Deng, Wen Ji (*with* Liu, Youyan) Generalized Möbius inverse formulas. (English summary) **94a:11005**
Fejes Tóth, László Complementary inequalities for arithmetic functions. **94g:11006**
Grytczuk, Aleksander On Ramanujan sums on arithmetical semigroups. **94f:11002**
Hagis, Peter, Jr. A new proof that every odd triperfect number has at least twelve prime factors. **94e:11003**
— *see also* **Cohen, Graeme L., 94c:11002**
Haukkanen, Pentti A note on generalized multiplicative and generalized additive arithmetic functions. **94e:11004**
— A note on rational arithmetic functions of order (2, 1). **94f:11003**
— An identity for a class of arithmetical functions of several variables. (English summary) **94f:11004**
— Some computational results concerning the divisor functions $d(n)$ and $\sigma(n)$. **94j:11006**
Jackson, T. H. *see* **Yan, Song Y., 94m:11012**
Joó, I. (*with* Bui Minh Phong) Arithmetical functions with congruence properties. **94a:11006**
Liu, Youyan *see* **Deng, Wen Ji, 94a:11005**
Millane, R. P. Möbius transform pairs. (English summary) **94e:11005**
Najar, Rudolph M. *see* **Beck, Walter E., 94g:11005**
Polyakov, E. A. A description of the congruences of the algebra of arithmetic functions with superposition and iteration operations. (Russian. Russian summary) **94g:11007**
Radhika, D. *see* **Siva Rama Prasad, V.; et al., 94e:11006**
Rangamma, M. *see* **Siva Rama Prasad, V.; et al., 94e:11006**
van Rossum-Wijsmuller, M. On the iteration of a multiplicative function defined on the Gaussian integers. **94k:11005**
Sándor, J. A note on the functions $\sigma_k(n)$ and $\varphi_k(n)$. (Romanian summary) **94f:11005**
— (*with* Sivaramakrishnan, R.) The many facets of Euler's totient. III. An assortment of miscellaneous topics. (English summary) **94i:11007**
Schlafly, Aaron (*with* Wagon, Stan) Carmichael's conjecture on the Euler function is valid below $10^{10,000,000}$. (English summary) **94i:11008**
Sivaramakrishnan, R. *see* **Sándor, J., 94i:11007**
Siva Rama Prasad, V. (*with* Rangamma, M.; Radhika, D.) Congruence properties of a class of arithmetic functions. (English summary) **94e:11006**
Smarandache, Florentin An infinity of unsolved problems concerning a function in the number theory. (English summary) **94m:11010**
— Solving problems by using a function in the number theory. (English summary) **94m:11011**
Starni, Paolo Odd perfect numbers: a divisor related to the Euler's factor. (English summary) **94c:11003**
Vasantha Kandasamy, W. B. On perfect less by r-numbers. (English summary)
Wagon, Stan *see* **Schlafly, Aaron, 94i:11008**
Wang, Jun Reduced φ-partitions of positive integers. **94j:11007**
Yan, Song Y. (*with* Jackson, T. H.) A new large amicable pair. (English summary) **94m:11012**
Zhang, Ming Zhi On nontotients. (English summary) **94c:11004**

Items with secondary classifications in 11A25

Bui Minh Phong On a theorem of Kátai-Wirsing. **94i:11077**
— Multiplicative functions satisfying a congruence property. V. **94m:11009**
Burde, Klaus Polynome, die nach jedem natürlichen Modul eine Restklassenabbildung vermitteln. [Polynomials which for each natural number modulus result in a residue class mapping] **94m:11023**
Campbell, Geoffrey B. Dirichlet summations and products over primes. (English summary) **94c:11082**
Chahal, Jasbir Singh Some arithmetic functions associated with Diophantine equations. **94f:11016**
Guo, Quan Lin Application of the generalized Möbius inversion formula to the computation of pairwise interactions in crystals. (Chinese. English and Chinese summaries) **94d:11106**
Indlekofer, K.-H. (*with* Kátai, Imre) Multiplicative functions with small increments. III. **94d:11072**
Kátai, Imre *see* **Indlekofer, K.-H., 94d:11072**
Kovács, Katalin On the characterization of additive functions with quadratic arguments. **94a:11153**
Kurakin, V. L. Convolution of linear recurrent sequences. (Russian) **94k:11018**
Moews, David (*with* Moews, Paul C.) A search for aliquot cycles and amicable pairs. (English summary) **94a:11198**
Moews, Paul C. *see* **Moews, David, 94a:11198**
Montgomery, Hugh L. (*with* Vaughan, R. C.) A basic inequality. **94a:11154**
Sárközy, G. N. On a problem of P. Erdős. **94c:11092**
Vaughan, R. C. *see* **Montgomery, Hugh L., 94a:11154**

11A41 Primes

(Albis González, V. S.) *see* **Ribenboim, Paulo, 94j:11008**
Balaji, S. A geometric representation of positive integers with applications to primality. **94e:11007**
Hobby, David (*with* Silberger, D. M.) Quotients of primes. **94a:11007**
Jaeschke, Gerhard On strong pseudoprimes to several bases. (English summary) **94d:11004**
Ribenboim, Paulo Prime number records. (Spanish) **94j:11008**
Robbins, Neville On Fibonacci numbers and primes of the form $4k + 1$. **94k:11006**
Silberger, D. M. *see* **Hobby, David, 94a:11007**
Sluyser, Mels Prime numbers and the $6N \pm 1$ series.
Sullivan, Robert P. *see* **Vipaveenukul, S., 94a:11008**
Vipaveenukul, S. (*with* Sullivan, Robert P.) Large prime numbers. **94a:11008**

11A51 Factorization; primality

Bosma, Wieb Explicit primality criteria for $h \cdot 2^k \pm 1$. (English summary) **94c:11005**
Bruce, J. W. A really trivial proof of the Lucas-Lehmer test. **94c:11006**
Chandran, V. R. On generalised unitary perfect numbers. (English summary) **94k:11007**
Dubner, Harvey Generalized repunit primes. (English summary) **94a:11009**
Hahn, S. A remark on Aurifeuilian factorizations. (English summary)
Stanton, Robert O. The remarkable number 648. **94a:11010**
Varshney, A. K. An extension of Fermat's numbers. (English summary) **94c:11007**

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Balaji, S. A geometric representation of positive integers with applications to primality. **94e:11007**
Collison, Joseph E. Products of $p + a$ and the graphs of I. Kátai. **94a:05082**
Coppersmith, Don Modifications to the number field sieve. (English summary) **94h:11111**
Crandall, Richard E. (*with* Fagin, Barry) Discrete weighted transforms and large-integer arithmetic. (English summary) **94c:11123**
Damgård, Ivan (*with* Landrock, Peter; Pomerance, Carl) Average case error estimates for the strong probable prime test. (English summary) **94b:11124**
Fagin, Barry *see* **Crandall, Richard E., 94c:11123**
Hagis, Peter, Jr. A new proof that every odd triperfect number has at least twelve prime factors. **94e:11003**
Hahn, Sang-Geun (*with* Oh, Yoon Yong) Factorizations of $17^n - 1$ for $n \leq 78$. (English summary) **94b:11123**
Kaup, Burchard Einfache Primtests. (German summary) [Simple primality tests] **94i:11104**
Landrock, Peter *see* **Damgård, Ivan; et al., 94b:11124**
Müller, Winfried B. (*with* Oswald, Alan) Dickson pseudoprimes and primality testing. (English summary) (*see* **94b:94003**)
Oh, Yoon Yong *see* **Hahn, Sang-Geun, 94b:11123**
Oswald, Alan *see* **Müller, Winfried B., (94b:94003)**
Pomerance, Carl Carmichael numbers. (English summary) **94h:11085**
— *see also* **Damgård, Ivan; et al., 94b:11124**
Schlafly, Aaron (*with* Wagon, Stan) Carmichael's conjecture on the Euler function is valid below $10^{10,000,000}$. (English summary) **94i:11008**
Wagon, Stan *see* **Schlafly, Aaron, 94i:11008**
Wagstaff, Samuel S., Jr. Computing Euclid's primes. **94e:11139**

11A55 Continued fractions {For approximation results, see 11J70; see also 11K50, 30B70, 40A15.}

Farhane, Ahmed Sur la longueur de la période du développement de $\sqrt{n^2 + h}$ en fraction continue. (English and French summaries) [On the length of the period of the continued fraction expansion of $\sqrt{n^2 + h}$] **94b:11008**

Grabiner, David J. Farey nets and multidimensional continued fractions. (English summary) **94b:11009**
Lehner, Joseph Lagrange's theorem for Hecke triangle groups. **94a:11011**
van der Poorten, A. J. Schneider's continued fraction. **94c:11008**
— (*with* Shallit, Jeffrey) A specialised continued fraction. (English summary) **94h:11001**
Rieger, G. J. Sums of unit fractions having long continued fractions. **94g:11008**
Shallit, Jeffrey *see* **van der Poorten, A. J., 94h:11001**

Items with secondary classifications in 11A55

Alladi, Krishnaswami (*with* Gordon, Basil) Partition identities and a continued fraction of Ramanujan. (English summary) **94f:11108**
Barbolosi, Dominique Automates et fractions continues. [Automata and continued fractions] **94k:11079**
van der Blij, F. Well-known real numbers. (Dutch) **94j:11001**
Browkin, J. (*with* Brzeziński, Juliusz) Some remarks on the *abc*-conjecture. (English summary) **94g:11021**
Brown, Tom C. Descriptions of the characteristic sequence of an irrational. (English summary) **94g:11051**
Brzeziński, Juliusz *see* **Browkin, J., 94g:11021**
Bumby, Richard T. Computing endpoints in Markoff spectra. **94b:11056**
Corless, R. M. Continued fractions and chaos. **94g:58135**
Françon, Jean Fractions continues q-analogiques pour certaines familles de permutations et de partitions. (English and French summaries) [q-analogous continued fractions for certain families of permutations and partitions] **94a:05014**
Gaunet, Marie-Laure *see* **Paysant-Le Roux, Roger; et al., 94c:11122**
Golubeva, E. P. Class numbers of real quadratic fields of discriminant $4p$. (Russian. Russian summary) **94f:11115**
Good, I. J. Erratum: "Complex Fibonacci and Lucas numbers, continued fractions, and the square root of the golden ratio" [Fibonacci Quart. **31** (1993), no. 1, 7–20; MR 93k:11010]. **94k:11010**
Gordon, Basil *see* **Alladi, Krishnaswami, 94f:11108**
Guivarc'h, Yves (*with* Le Jan, Y.) Asymptotic winding of the geodesic flow on modular surfaces and continued fractions. (English summary) **94a:58157**
Hellegouarch, Yves *see* **Paysant-Le Roux, Roger; et al., 94c:11122**
Kaplan, Pierre (*with* Leonard, Philip A.) Idéaux négativement réduits d'un corps quadratique réel et un problème d'Eisenstein. [Negatively reduced ideals of a real quadratic field and a problem of Eisenstein] **94j:11104**
Le Jan, Y. *see* **Guivarc'h, Yves, 94a:58157**
Leonard, Philip A. *see* **Kaplan, Pierre, 94j:11104**
MacLeod, Allan J. High-accuracy numerical values in the Gauss-Kuz'min continued fraction problem. (English summary) **94h:11114**
Mendès France, Michel Remarks and problems on finite and periodic continued fractions. (English summary) **94i:11045**
Moore, Gregory A. A Fibonacci polynomial sequence defined by multidimensional continued fractions; and higher-order golden ratios. **94g:11014**
Paysant-Le Roux, Roger Périodicité des fractions continues dans un corps de fonctions hyperelliptiques. [Periodicity of continued fractions in a hyperelliptic function field] **94g:11106**
— (*with* Hellegouarch, Yves; Gaunet, Marie-Laure) Sur certaines fractions continues non standard. (English and French summaries) [On certain nonstandard continued fractions] **94c:11122**
Queen, Clifford S. Palindromes. (English summary) **94i:11014**
Sheingorn, Mark Continued fractions and congruence subgroup geodesics. **94f:11028**
Srinivasan, Seshadri Two results in number theory. (English summary) **94e:11106**
Thron, W. J. Should the Pringsheim criterion be renamed the Śleszyński criterion? **94d:01030**
Tripathi, Amitabha A comparison of dispersion and Markov constants. **94e:11079**
Zeng, Jiang Énumérations de permutations et J-fractions continues. [Enumerations of permutations and continued J-fractions] **94m:05008**

11A63 Radix representation; digital problems {For metric results, see 11K16.}

Balakrishnan, U. (*with* Sury, B.) Sum of digits of divisors. **94i:11009**
Bicknell-Johnson, Marjorie Retrograde renegades and the Pascal connection. II. Repeating decimals represented by sequences of diagonal sums of generalized Pascal triangles appearing from right to left. **94j:11009**
Blecksmith, Richard (*with* Filaseta, Michael; Nicol, C.) A result on the digits of a^n. **94d:11005**
Cooper, Curtis (*with* Kennedy, Robert E.) On consecutive Niven numbers. **94b:11010**
Erdős, Paul (*with* Joó, I.) On the number of expansions $1 = \sum q^{-n_i}$. **94a:11012**
Filaseta, Michael *see* **Blecksmith, Richard; et al., 94d:11005**
Frougny, Christiane How to write integers in noninteger base. (English summary) **94m:11013**
Indlekofer, K.-H. (*with* Kátai, Imre; Racskó, P.) Some remarks on generalized number systems. **94i:11010**
Joó, I. Description of the closure in N^N of the set of digit sequences of the greedy expansions of all x, $0 \le x < 1$. **94m:11014**
— *see also* **Erdős, Paul, 94a:11012**
Kátai, Imre *see* **Indlekofer, K.-H.; et al., 94i:11010**
Kennedy, Robert E. *see* **Cooper, Curtis, 94b:11010**
Környei, I. *see* **Kovács, B., 94k:11008**
Kovács, B. (*with* Környei, I.) On the periodicity of the radix expansion. **94k:11008**
Nicol, C. *see* **Blecksmith, Richard; et al., 94d:11005**
Pethő, Attila (*with* Tichy, Robert F.) S-unit equations, linear recurrences and digit expansions. (English summary) **94a:11013**
Puly, Kanakku Cross-jump numbers. **94k:11009**
Racskó, P. *see* **Indlekofer, K.-H.; et al., 94i:11010**
Sury, B. *see* **Balakrishnan, U., 94i:11009**
Tichy, Robert F. *see* **Pethő, Attila, 94a:11013**
Young, Anne Ludington A variation on the two-digit Kaprekar routine. **94c:11009**

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Brown, Tom C. Descriptions of the characteristic sequence of an irrational. (English summary) **94g:11051**
Dumont, Jean-Marie (*with* Thomas, Alain) Digital sum moments and substitutions. **94f:11067**
Flajolet, Philippe (*with* Grabner, Peter J.; Kirschenhofer, Peter; Prodinger, Helmut; Tichy, Robert F.) Mellin transforms and asymptotics: digital sums. (English summary) **94m:11090**
Grabner, Peter J. *see* **Flajolet, Philippe; et al., 94m:11090**
Henstock, R. Infinite decimals. (English summary) **94f:40009**
Kano, Hiroyuki[2] General constructions of normal numbers of Korobov type. **94j:11069**
Kirschenhofer, Peter *see* **Flajolet, Philippe; et al., 94m:11090**
Nicolas, Jean-Louis Propriétés arithmétiques de certains nombres eulériens. [Arithmetical properties of certain Euler numbers] **94j:11023**
Prodinger, Helmut *see* **Flajolet, Philippe; et al., 94m:11090**
Rao, A. R. Rectification of numbers. **94j:11010**
Sury, B. Fractional parts of $\log p$ and a digit function. (English summary) **94g:11055**
Thomas, Alain *see* **Dumont, Jean-Marie, 94f:11067**
Tichy, Robert F. *see* **Flajolet, Philippe; et al., 94m:11090**
Vince, Andrew Replicating tessellations. (English summary) **94e:52023**

11A67 Other representations

Daróczy, Zoltán (*with* Kátai, Imre) Univoque sequences. **94i:11011**
Grubbström, Robert W. Thoughts on a new numerical system for hexadecimal numbers. **94a:11014**
Kátai, Imre *see* **Daróczy, Zoltán, 94i:11011**
Pihko, Jukka Proof of a conjecture of Selmer. **94k:11010**
Rao, A. R. Rectification of numbers. **94j:11010**
Weisz, Juan F. Real numbers in factorial representation. (English summary) **94k:11011**

Items with secondary classifications in 11A67

Frougny, Christiane How to write integers in noninteger base. (English summary) **94m:11013**
— (*with* Solomyak, B. M.) Finite beta-expansions. (English summary) **94a:11123**
Kiss, Péter Average order of the terms of a recursive sequence. **94g:11011**
Pihko, Jukka On sequences having same minimal elements in the Lemoine-Kátai algorithm. **94a:11028**
Solomyak, B. M. *see* **Frougny, Christiane, 94a:11123**

11A99 None of the above, but in this section

Lambek, J. Some Galois connections in elementary number theory. (English summary)

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Zelator, Konstantine Dabmian On independent Pythagorean numbers. **94i:11020**

11Bxx Sequences and sets

11B05 Density, gaps, topology

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Erdős, Paul (*with* Pomerance, Carl; Sárközy, András; Stewart, C. L.) On elements of sumsets with many prime factors. (English summary) **94b:11011**
Freiman, Gregory A. On the structure and the number of sum-free sets. (English summary) **94a:11016**
Grekos, Georges Suites équivalentes. (English summary) [Equivalent sequences] **94j:11011**
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Okutsu, Kōsaku On the measure on the set of positive integers. **94m:11016**
Pareek, C. M. *see* **Abbott, H. L., 94a:11015**
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Powell, Barry J. (*with* Šalát, Tibor) Convergence of subseries of the harmonic series and asymptotic densities of sets of positive integers. (English summary) **94k:11012**
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Lippert, Ross A. A probabilistic interpretation of the Hurwitz zeta function. (English summary) **94b:11088**
Ribenboim, Paulo Density results on families of Diophantine equations with finitely many solutions. **94h:11022**
Zhang, Zhen Xiang *see* **Erdős, Paul, 94f:11013**

11B13 Additive bases [see also 05B10]

Bollobás, Béla (*with* Erdős, Paul; Jin, Guo Ping) Ramsey problems in additive number theory. **94g:11009**
Erdős, Paul (*with* Sárközy, András) Some solved and unsolved problems in combinatorial number theory. II. **94j:11012**

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Jia, Xing De Some remarks on minimal bases and maximal nonbases of integers. (English summary) **94k:11013**
— On finite Sidon sequences. (English summary) **94k:11014**
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Lipkin, E. On subset sums of r-sets. (English summary) **94f:11006**
Nash, John C. M. Some applications of a theorem of M. Kneser. (English summary) **94k:11015**
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Selmer, Ernst S. Associate bases in the postage stamp problem. (English summary) **94b:11012**
Warlimont, Richard Über eine die Basen der natürlichen Zahlen betreffende Ungleichung von Alfred Stöhr. [On an inequality of Alfred Stöhr concerning the bases of natural numbers] **94m:11017**
Wierdl, Máté On the magnitude of the sum of bases of the natural numbers. (English summary) **94e:11009**

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Pihko, Jukka Proof of a conjecture of Selmer. **94k:11010**

11B25 Arithmetic progressions [see also 11N13]

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Fraenkel, Aviezri S. *see* **Eggleton, Roger B.; et al., 94a:11018**
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Ruzsa, Imre Z. Arithmetical progressions and the number of sums. **94a:11019**
Shah, Devbhadra V. Cut-off numbers. (English summary) **94m:11018**
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Furstenberg, Hillel (*with* Katznelson, Yitzhak) A density version of the Hales-Jewett theorem. **94f:28020**
Katznelson, Yitzhak *see* **Furstenberg, Hillel, 94f:28020**
Pašteka, Milan Covering densities. (English summary) **94c:11010**
Shorey, T. N. *see* **Balasubramanian, Ramachandran, 94h:11021**

11B34 Representation functions

Barabash, Alexander (*with* Fraenkel, Aviezri S.; Weiss, Barak) Iterated Beatty functions. (English summary) **94g:11010**
Fraenkel, Aviezri S. *see* **Barabash, Alexander; et al., 94g:11010**
Tee, Garry J. Integer sums of recurring series. (English summary) **94k:11016**
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Sárközy, András *see* **Erdős, Paul, 94j:11012**

11B37 Recurrences {For applications to special functions, see 33-XX.}

Blasius, A. A linear recurrence system. (English summary) **94j:11013**
Brent, Richard P. On the periods of generalized Fibonacci recurrences. (English summary) **94i:11012**
Dofs, Erik On extensions of 1 chains. **94k:11017**
Dubeau, François The rabbit problem revisited. **94e:11010**
Horadam, Alwyn F. Associated sequences of general order. **94f:11007**
Jones, James P. (*with* Kiss, Péter) On points whose coordinates are terms of a linear recurrence. **94h:11003**
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Kurakin, V. L. Representations of linear recurrence sequences, and regular prime numbers. (Russian) **94i:11013**
— Convolution of linear recurrent sequences. (Russian) **94k:11018**
Mignotte, Maurice (*with* Tzanakis, Nikos) Arithmetical study of a certain ternary recurrence sequence and related questions. (English summary) **94a:11020**
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Schlickewei, Hans Peter Multiplicities of algebraic linear recurrences. **94i:11015**
— (*with* Schmidt, Wolfgang M.) Linear equations in members of recurrence sequences. **94h:11004**
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Shan, Zun (*with* Zhu, Ping Tian) On (a, b, k)-partitions of positive integers. (English summary) **94g:11012**
Somer, Lawrence Periodicity properties of kth order linear recurrences with irreducible characteristic polynomial over a finite field. (English summary) **94c:11014**
Tzanakis, Nikos *see* **Mignotte, Maurice, 94a:11020**
Zhu, Ping Tian *see* **Shan, Zun, 94g:11012**
Zöllner, Joachim A disjoint system of linear recurring sequences generated by $u_{n+2} = u_{n+1} + u_n$ which contains every natural number. **94e:11011**

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Badea, Cătălin A theorem on irrationality of infinite series and applications. **94b:11062**
Creech, R. L. *see* **Spickerman, W. R.; et al., 94i:11016**
Eliahou, Shalom The $3x+1$ problem: new lower bounds on nontrivial cycle lengths. (English summary) **94h:11017**
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Grabner, Peter J. (*with* Prodinger, Helmut; Tichy, Robert F.) Asymptotic analysis of a class of functional equations and applications. (English summary) **94m:05014**
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Haukkanen, Pentti A note on rational arithmetic functions of order (2, 1). **94f:11003**
Jones, James P. (*with* Kiss, Péter) Some Diophantine approximation results concerning linear recurrences. (English summary) **94b:11061**
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11B39 Fibonacci and Lucas numbers and polynomials and generalizations

Clary, Stuart (*with* Hemenway, Paul D.) On sums of cubes of Fibonacci numbers. **94m:11020**
Creech, R. L. *see* **Spickerman, W. R.; et al., 94i:11016**
Di Porto, Adina Nonexistence of even Fibonacci pseudoprimes of the 1st kind. **94d:11007**
Đorđević, Gospava B. Mixed Fermat convolutions. **94c:11015**
Filipponi, Piero (*with* Horadam, Alwyn F.) Second derivative sequences of Fibonacci and Lucas polynomials. **94f:11008**
— Real Fibonacci and Lucas numbers with real subscripts. **94j:11014**
Freitag, H. T. (*with* Phillips, G. M.) On co-related sequences involving generalized Fibonacci numbers. **94a:11021**
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Guthmann, Andreas Wieviele k-stellige Fibonaccizahlen gibt es? [How many k-ary Fibonacci numbers are there?] **94a:11022**
Hemenway, Paul D. *see* **Clary, Stuart, 94m:11020**
Hochwald, Scott H. (*with* Tong, Jing Cheng) On the reciprocals of the Fibonacci numbers. **94h:11005**
Horadam, Alwyn F. Quaternion recurrence relations. **94k:11019**
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Jones, James P. (*with* Kiss, Péter) An asymptotic formula concerning Lehmer numbers. (English summary) **94j:11015**
Jordan, James H. (*with* Peterson, Blake E.) Almost regular integer Fibonacci pentagons. **94a:11023**
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Konvalina, John (*with* Liu, Yi-Hsin) Circular subsets without q-separation and powers of Lucas numbers. **94e:11012**
Liu, Yi-Hsin *see* **Konvalina, John, 94e:11012**
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Moore, Gregory A. A Fibonacci polynomial sequence defined by multidimensional continued fractions; and higher-order golden ratios. **94g:11014**
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Somer, Lawrence On even Fibonacci pseudoprimes. **94b:11014**
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Tong, Jing Cheng *see* **Hochwald, Scott H., 94h:11005**
Töpfer, Thomas Linear forms in Lucas numbers. (English summary) **94h:11007**
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Bollinger, Richard C. Extended Pascal triangles. (English summary) **94a:11025**
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Dotson, William (*with* Norwood, Frederick Hudson; Taylor, Charles) Fiber optics and Fibonacci. **94e:11149**
Drmota, Michael On linear Diophantine equations and Fibonacci numbers. (English summary) **94e:11020**
Dubeau, François The rabbit problem revisited. **94e:11010**
Dujella, Andrej Generalization of a problem of Diophantus. **94k:11031**
Fraenkel, Aviezri S. Iterated floor function, algebraic numbers, discrete chaos, Beatty subsequences, semigroups. **94d:11011**
Frejman, Dariusz On Fermat's equation in the set of Fibonacci matrices. (English summary) **94i:11024**
Goldstein, Arthur S. (*with* Reingold, Edward M.) A Fibonacci version of Kraft's inequality applied to discrete unimodal search. (English summary) **94f:68097**
Haase, Herman Hyperspaces and Fibonacci numbers. **94c:05005**
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van der Poorten, A. J. (*with* Shallit, Jeffrey) A specialised continued fraction. (English summary) **94h:11001**
Prasad, K. C. (*with* Lari, M.) On a Farey-like sequence. (English summary) **94j:11018**
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Suzuki, Toshi-kazu One-dimensional quasiperiodic lattices: new trace formulae and new kinds of self-similar polynomials. (English summary) **94k:52025**
Taylor, Charles *see* **Dotson, William; et al., 94e:11149**
Töpfer, Thomas *see* **Becker, Paul-Georg, 94m:11088**
Zöllner, Joachim A disjoint system of linear recurring sequences generated by $u_{n+2} = u_{n+1} + u_n$ which contains every natural number. **94e:11011**

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11B50 Sequences (mod m)

Alon, Noga (*with* Dubiner, M.) Zero-sum sets of prescribed size. (English summary) **94j:11016**
Arnol'd, V. I. Congruences for Euler, Bernoulli and Springer numbers of Coxeter groups. (Russian. Russian summary) **94a:11024**
Ayad, Mohamed Périodicité (mod q) des suites elliptiques et points S-entiers sur les courbes elliptiques. (English and French summaries) [Periodicity (mod q) of elliptic sequences and S-integer points on elliptic curves] **94f:11009**
Bialostocki, A. (*with* Lotspeich, M.) Some developments of the Erdős-Ginzburg-Ziv theorem. I. **94k:11021**
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Burde, Klaus Polynome, die nach jedem natürlichen Modul eine Restklassenabbildung vermitteln. [Polynomials which for each natural number modulus result in a residue class mapping] **94m:11023**
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Fűredi, Zoltán (*with* Kleitman, Daniel J.) The minimal number of zero sums. (English summary) **94h:11008**
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Kurakin, V. L. Representations over the ring Z_{p^n} of a linear recursive sequence of maximal period over the field GF(p). (Russian. Russian summary) **94e:11013**
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Chen, Sheng On the size of finite Sidon sequences. (English summary) **94h:11016**
Di Porto, Adina Nonexistence of even Fibonacci pseudoprimes of the 1st kind. **94d:11007**
Gao, Wei Dong *see* **Sun, Qi; et al., 94h:11095**
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Holte, John M. A Lucas-type theorem for fibonomial-coefficient residues. **94k:11023**
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Sun, Qi (*with* Zheng, De Xun; Zhang, Ming Zhi; Gao, Wei Dong) A generalization of X. H. Yu's problem. (Chinese. English and Chinese summaries) **94h:11095**
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Zhang, Ming Zhi *see* **Sun, Qi; et al., 94h:11095**
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11B57 Farey sequences; the sequences $\{1^k, 2^k, \cdots\}$

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Kotiah, Thoddi C. T. Sums of powers of integers—a review. (English summary) **94g:11016**
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Knuth, Donald E. Johann Faulhaber and sums of powers. (English summary) **94a:11030**
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11B65 Binomial coefficients; factorials; q-identities [see also 05A10, 05A30]

Andrews, George E. On the Greene-Krammer theorem and related identities. **94g:11017**
— (*with* Ekhad, Shalosh B.; Zeilberger, Doron) A short proof of Jacobi's formula for the number of representations of an integer as a sum of four squares. **94b:11015**
— On the difference of successive Gaussian polynomials. (English summary) **94f:11010**
Bollinger, Richard C. Extended Pascal triangles. (English summary) **94a:11025**
Borwein, Jonathan M. (*with* Borwein, Peter B.; Garvan, Frank G.) Some cubic modular identities of Ramanujan. (English summary) **94j:11019**
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Krammer, Daan Sums of three squares and q-series. (English summary) **94h:11010**
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Nishimoto, Katsuyuki (*with* Sekine, Tadayuki; Srivastava, Hari M.) Some families of infinite series summable by means of fractional calculus. (English summary) **94h:11011**
Sander, J. W. Reprise: "Prime power divisors of binomial coefficients" [J. Reine Angew. Math. **430** (1992), 1–20; MR 93h:11021]. **94c:11020**
Sekine, Tadayuki *see* **Nishimoto, Katsuyuki; et al., 94h:11011**
Srivastava, Hari M. *see* **Nishimoto, Katsuyuki; et al., 94h:11011**
Sun, Zhi Hong The combinatorial sum $\sum_{k=0,\ k\equiv r \pmod m}^{n} \binom{n}{k}$ and its applications in number theory. I. (Chinese. English summary) **94a:11026**
— The combinatorial sum $\sum_{k=0,\ k\equiv r \pmod m}^{n} \binom{n}{k}$ and its applications in number theory. II. (Chinese. English summary) **94j:11021**
Sury, B. A curious polynomial identity. **94h:11012**
Zeilberger, Doron *see* **Andrews, George E.; et al., 94b:11015**

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Ahmad, Shakil (*with* Ghosh, D. K.) A note on generalised subsets. **94b:05012**
Andrews, George E. On Ramanujan's empirical calculation for the Rogers-Ramanujan identities. **94d:33012**
Berndt, Bruce C. On a certain theta-function in a letter of Ramanujan from Fitzroy House. **94b:11105**
Cartier, Pierre Démonstration "automatique" d'identités et fonctions hypergéométriques (d'après D. Zeilberger). (French summary) ["Automatic" proof of hypergeometric identities and functions (after D. Zeilberger)] **94a:33019**
Cigler, J. A new q-analog of Stirling numbers. (English summary) **94h:11014**
Filipponi, Piero Real Fibonacci and Lucas numbers with real subscripts. **94j:11014**
Françon, Jean Fractions continues q-analogiques pour certaines familles de permutations et de partitions. (English and French summaries) [q-analogous continued fractions for certain families of permutations and partitions] **94a:05014**
Friedman, Jane E. An application of Ehrenpreis's basis method to the Rogers-Ramanujan identities. **94g:33015**
Garvan, Frank G. Some congruences for partitions that are p-cores. (English summary) **94c:11101**
Ghosh, D. K. *see* **Ahmad, Shakil, 94b:05012**
Ishikawa, Tsuneo Congruences between binomial coefficients $\binom{2f}{f}$ and Fourier coefficients of certain η-products. **94a:11060**
Kang, Seok-Jin On the hyperbolic Kac-Moody Lie algebra $HA_1^{(1)}$. **94d:17033**
Kordecki, Wojciech On the rank of a random submatroid of projective geometry. **94b:51014**
Leroux, Pierre *see* **de Médicis, Anne, 94g:05013a** *and* **94g:05013b**
Manickam, N. (*with* Miklós, D.) On the number of nonnegative partial sums of a nonnegative sum. **94d:05140**
de Médicis, Anne (*with* Leroux, Pierre) A unified combinatorial approach for q- (and p,q-) Stirling numbers. (English summary) **94g:05013a**
— (*with* Leroux, Pierre) Erratum: "A unified combinatorial approach for q- (and p,q-) Stirling numbers". **94g:05013b**
Miklós, D. *see* **Manickam, N., 94d:05140**
Nicolas, Jean-Louis Propriétés arithmétiques de certains nombres eulériens. [Arithmetical properties of certain Euler numbers] **94j:11023**
Reiter, Ashley Melia Determining the dimension of fractals generated by Pascal's triangle. **94b:05011**
Shi, He On the Li Shan-Lan identity. **94h:05007**
Smarandache, Florentin A function in the number theory. (English summary) **94m:11007**
— Some linear equations involving a function in the number theory. (English summary) **94m:11008**
Smith, John Howard Combinatorial congruences from p-subgroups of the symmetric group. (English summary) **94g:20006**
Zeilberger, Doron Closed form (pun intended!). **94a:33020**

11B68 Bernoulli and Euler numbers and polynomials

Adelberg, Arnold On the degrees of irreducible factors of higher order Bernoulli polynomials. **94a:11027**
Bartz, Krystyna M. (*with* Rutkowski, Jerzy) On the von Staudt-Clausen theorem. **94b:11017**
Beukers, Frits (*with* Kolk, Johan A. C.; Calabi, Eugenio) Sums of generalized harmonic series and volumes. **94j:11022**
Butzer, P. L. (*with* Hauss, M.) Eulerian numbers with fractional order parameters. (English summary) **94h:11013**
Calabi, Eugenio *see* **Beukers, Frits; et al., 94j:11022**
Girstmair, Kurt Eine Verbindung zwischen den arithmetischen Eigenschaften verallgemeinerter Bernoullizahlen. (English summary) [A connection between the arithmetic properties of generalized Bernoulli numbers] **94f:11011**
Grassl, Richard M. Euler numbers and skew-hooks. **94e:11016**
Hauss, M. *see* **Butzer, P. L., 94h:11013**
Kim, Taekyun An analogue of Bernoulli numbers and their congruences. (English summary) **94m:11024**
Kolk, Johan A. C. *see* **Beukers, Frits; et al., 94j:11022**
Koutras, Markos V. Eulerian numbers associated with sequences of polynomials. **94k:11024**
Nicolas, Jean-Louis An integral representation for Eulerian numbers. **94d:11010**
— Propriétés arithmétiques de certains nombres eulériens. [Arithmetical properties of certain Euler numbers] **94j:11023**
Rutkowski, Jerzy *see* **Bartz, Krystyna M., 94b:11017**
Sury, B. The value of Bernoulli polynomials at rational numbers. (English summary) **94g:11018**
Xin, Xiao Long (*with* Zhang, Jian Kang) Some identities connecting Euler numbers and Bernoulli numbers. (Chinese. English and Chinese summaries) **94j:11024**
Zhang, Jian Kang *see* **Xin, Xiao Long, 94j:11024**

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Bloom, David M. An old algorithm for the sums of integer powers. **94j:11017**
Butzer, P. L. (*with* Hauss, M.) Stirling functions of first and second kind; some new applications. **94b:11018**
Evans, Ronald J. (*with* Stolarsky, Kenneth B.; Wavrik, John J.) Difference polynomials. (English summary) **94a:11029**
Hauss, M. *see* **Butzer, P. L., 94b:11018**
Kotiah, Thoddi C. T. Sums of powers of integers—a review. (English summary) **94g:11016**
Matveev, E. M. Arithmetic properties of the values of generalized binomials. (Russian. Russian summary) **94j:11028**
Moree, Pieter (*with* te Riele, H. J. J.; Urbanowicz, Jerzy) Divisibility properties of integers x, k satisfying $1^k + \cdots + (x-1)^k = x^k$. (English summary) **94m:11041**
Prodinger, Helmut How to select a loser. (English summary) **94g:05010**
te Riele, H. J. J. *see* **Moree, Pieter; et al., 94m:11041**
Skula, Ladislav The Kummer system of congruences and index of irregularity. **94h:11024**
— The orders of solutions of the Kummer system of congruences. (English summary) **94h:11025**
Stolarsky, Kenneth B. *see* **Evans, Ronald J.; et al., 94a:11029**
Urbanowicz, Jerzy *see* **Moree, Pieter; et al., 94m:11041**
Wavrik, John J. *see* **Evans, Ronald J.; et al., 94a:11029**

11B73 Bell and Stirling numbers

Butzer, P. L. (*with* Hauss, M.) Stirling functions of first and second kind; some new applications. **94b:11018**
Cigler, J. A new q-analog of Stirling numbers. (English summary) **94h:11014**
Dowling, Thomas A. Stirling numbers. **94j:11025**
Hauss, M. *see* **Butzer, P. L., 94b:11018**
Temme, Nico M. Asymptotic estimates of Stirling numbers. (English summary) **94b:11019**
Wilf, Herbert S. The asymptotic behavior of the Stirling numbers of the first kind. **94m:11025**
Xu, Li Zhi A summation rule using Stirling numbers of the second kind. **94e:11017**
— Some theorems on Stirling-type pairs. (English summary) **94i:11017**

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Clarke, Robert J. (*with* Sved, Marta) Derangements and Bell numbers. **94k:05016**
Habsieger, Laurent Inégalités entre fonctions symétriques élémentaires: applications à des problèmes de log-concavité. (English and French summaries) [Inequalities between elementary symmetric functions: applications to log-concavity problems] **94b:05207**
Leroux, Pierre *see* **de Médicis, Anne, 94g:05013a** *and* **94g:05013b**
de Médicis, Anne (*with* Leroux, Pierre) A unified combinatorial approach for q- (and p,q-) Stirling numbers. (English summary) **94g:05013a**
— (*with* Leroux, Pierre) Erratum: "A unified combinatorial approach for q- (and p,q-) Stirling numbers". **94g:05013b**
Nishimoto, Katsuyuki (*with* Srivastava, Hari M.) Evaluation of the sum of powers of natural numbers by means of fractional calculus. (English summary) **94g:33003**
Srivastava, Hari M. *see* **Nishimoto, Katsuyuki, 94g:33003**
Sved, Marta *see* **Clarke, Robert J., 94k:05016**

11B75 Other combinatorial number theory

Adiga, Chandrashekar *see* **Mohan, N. R., 94k:11026**
Bollobás, Béla (*with* Jin, Guo Ping) A partition problem of Erdős for integers. (English summary) **94k:11025**
Cai, Tian Xin On a conjecture of Graham. (Chinese. English and Chinese summaries) **94b:11020**
Chahal, Jasbir Singh (*with* D'Souza, H. J.) Some remarks on triangular numbers. **94b:11021**
D'Souza, H. J. *see* **Chahal, Jasbir Singh, 94b:11021**
Egecioğlu, Ömer A combinatorial generalization of a Putnam problem. **94f:11012**
Jin, Guo Ping *see* **Bollobás, Béla, 94k:11025**
Kumar Jha, Awinash Property of natural numbers. (English summary)
Mohan, N. R. (*with* Adiga, Chandrashekar) A note on Ward's conjecture. **94k:11026**
Pihko, Jukka On sequences having same minimal elements in the Lemoine-Kátai algorithm. **94a:11028**

Items with secondary classifications in 11B75

Barabash, Alexander (*with* Fraenkel, Aviezri S.; Weiss, Barak) Iterated Beatty functions. (English summary) **94g:11010**
Bernstein, Daniel J. A noniterative 2-adic statement of the $3N+1$ conjecture. (English summary) **94h:11108**
Bialostocki, A. Zero sum trees: a survey of results and open problems. (English summary) **94i:05104**
Fabrykowski, J. On maximal residue difference sets modulo p. (English summary) **94b:11006**
Fraenkel, Aviezri S. *see* **Barabash, Alexander; et al., 94g:11010**
Geelen, J. F. (*with* Simpson, R. Jamie) A two-dimensional Steinhaus theorem. (English summary) **94k:11083**
Lenstra, Hendrik W., Jr. Generating units modulo an odd integer by addition and subtraction. **94g:11003**
Ruzsa, Imre Z. Arithmetical progressions and the number of sums. **94a:11019**
Simpson, R. Jamie *see* **Geelen, J. F., 94k:11083**
Weiss, Barak *see* **Barabash, Alexander; et al., 94g:11010**
Zhang, Zhen Xiang Finding finite B_2-sequences with larger $m - a_m^{1/2}$. (English summary) **94i:11109**

11B83 Special sequences and polynomials

Akiyama, Shigeki A new type of inclusion exclusion principle for sequences and asymptotic formulas for $\zeta(k)$. (English summary) **94k:11027**
Chen, Sheng On Sidon sequences of even orders. **94h:11015**
— On the size of finite Sidon sequences. (English summary) **94h:11016**

Clark, Dean S. (*with* Lewis, James T.) Circular avoiding sequences with prescribed sum. (English summary) **94b:11022**
Deshpande, M. N. On sum of sums of positive integers.
Eliahou, Shalom The $3x + 1$ problem: new lower bounds on nontrivial cycle lengths. (English summary) **94h:11017**
Erdős, Paul (*with* Zhang, Zhen Xiang) Upper bound of $\sum 1/(a_i \log a_i)$ for quasi-primitive sequences. (English summary) **94f:11013**
Evans, Ronald J. (*with* Stolarsky, Kenneth B.; Wavrik, John J.) Difference polynomials. (English summary) **94a:11029**
Filipponi, Piero On the polynomial representation of certain recurrences. (English summary) **94m:11026**
Fraenkel, Aviezri S. Iterated floor function, algebraic numbers, discrete chaos, Beatty subsequences, semigroups. **94d:11011**
Gao, Guo-Gang On consecutive numbers of the same height in the Collatz problem. (English summary) **94i:11018**
Grytczuk, Aleksander Some remarks on Fermat numbers. **94k:11028**
Hirschhorn, Michael Climbing stairs.
Khanna, I. K. (*with* Ojha, Amar Nath) Generalized numbers and related polynomial set. (English summary) **94b:11023**
Knuth, Donald E. Johann Faulhaber and sums of powers. (English summary) **94a:11030**
Kuttler, James R. On the $3x + 1$ problem.
Lewis, James T. *see* **Clark, Dean S., 94b:11022**
Marko, František Polynomials of the form $g(x^k)$ and pseudoprimes with respect to linear recurring sequences. (English summary) **94a:11031**
Moser, W. Cyclic binary strings without long runs of like (alternating) bits. **94a:11032**
Ojha, Amar Nath *see* **Khanna, I. K., 94b:11023**
Robert, Alain Polynômes de Legendre mod 4. (English and French summaries) [Legendre polynomials mod 4] **94m:11027**
Stolarsky, Kenneth B. *see* **Evans, Ronald J.; et al., 94a:11029**
Wang, Qi Yi *see* **Yan, Xi Ren, 94k:11029**
Wavrik, John J. *see* **Evans, Ronald J.; et al., 94a:11029**
Wirsching, Günther An improved estimate concerning $3n + 1$ predecessor sets. **94e:11018**
Wu, Jia Bang The trend of changes of the proportion of consecutive numbers of the same height in the Collatz problem. (Chinese. English and Chinese summaries) **94b:11024**
— On the consecutive positive integers of the same height in the Collatz problem. (Chinese. English and Chinese summaries)
Yan, Xi Ren (*with* Wang, Qi Yi) A direct method to generate usable cyclic sequences. (Chinese. English and Chinese summaries) **94k:11029**
Zhang, Zhen Xiang *see* **Erdős, Paul, 94f:11013**
Zuber, Maxime Propriétés de congruence de certaines familles classiques de polynômes. (English and French summaries) [Congruence properties of certain classical families of polynomials] **94b:11025**

Items with secondary classifications in 11B83

Ayad, Mohamed Périodicité (mod q) des suites elliptiques et points S-entiers sur les courbes elliptiques. (English and French summaries) [Periodicity (mod q) of elliptic sequences and S-integer points on elliptic curves] **94f:11009**
Barbolosi, Dominique Automates et fractions continues. [Automata and continued fractions] **94k:11079**
Bonin, Joseph E. (*with* Shapiro, Louis; Simion, Rodica) Some q-analogues of the Schröder numbers arising from combinatorial statistics on lattice paths. (English summary) **94e:05029**
Boros, Z. Interval-filling sequences with respect to a finite set of real coefficients. (English summary) **94h:11069**
Burckel, S. Functional equations associated with congruential functions. (English summary) **94m:11147**
Chaix, Henri (*with* Faure, Henri) Discrépance et diaphonie en dimension un. [Discrepancy and diaphony in dimension one] **94a:11115**
Daróczy, Zoltán (*with* Járai, Antal; Kátai, Imre) Some remarks on interval filling sequences and additive functions. **94d:39012**
— (*with* Kátai, Imre) Univoque sequences. **94i:11011**
Đorđević, Gospava B. Mixed Fermat convolutions. **94c:11015**
Faure, Henri *see* **Chaix, Henri, 94a:11115**
Freiman, Gregory A. On the structure and the number of sum-free sets. (English summary) **94a:11016**
Horadam, Alwyn F. Associated sequences of general order. **94f:11007**
— Quaternion recurrence relations. **94k:11019**
Járai, Antal *see* **Daróczy, Zoltán; et al., 94d:39012**
Kátai, Imre *see* **Daróczy, Zoltán; et al., 94d:39012** *and* **94i:11011**
Koutras, Markos V. Eulerian numbers associated with sequences of polynomials. **94k:11024**
Landman, Bruce M. An upper bound for van der Waerden-like numbers using k colors. (English summary) **94d:11006**
Maksa, Gyula Interval filling sequences and the dyadic group. **94d:39013**
McDaniel, Wayne L. Square Lehmer numbers. **94h:11006**
Sander, J. W. On maximal antihierarchic sets of integers. (English summary) **94a:11017**
Shapiro, Louis *see* **Bonin, Joseph E.; et al., 94e:05029**
Shevelev, V. S. Some problems in the theory of enumeration of permutations with restricted positions. (Russian) **94a:05012**
Simion, Rodica *see* **Bonin, Joseph E.; et al., 94e:05029**
Somer, Lawrence Divisibility of terms in Lucas sequences by their subscripts. **94m:11022**
Urías, Jesús Arithmetic representations of cellular automata. (English summary) **94k:58075**
Zhu, Shi Xin A new algorithm for generating binary de Bruijn sequences. (Chinese. English and Chinese summaries) **94m:94014**

11B85 Automata sequences

Allouche, Jean-Paul (*with* Shallit, Jeffrey) The ring of k-regular sequences. **94c:11021**
Arnoux, Pierre (*with* Mauduit, Christian; Shiokawa, Iekata; Tamura, Jun-ichi) Complexity of sequences defined by billiard in the cube. (English and French summaries) **94m:11028**
Blanchard, F. (*with* Fabre, S.) Quelques procédés engendrant des suites infinies. (English summary) [Some procedures that generate infinite sequences] **94m:11029**
Borel, Jean-Pierre Symbolic representation of piecewise linear functions on the unit interval and application to discrepancy. (English summary) **94m:11030**
Fabre, S. *see* **Blanchard, F., 94m:11029**
(Faure, Henri) *see* **Borel, Jean-Pierre, 94m:11030**
Iguchi, Kazumoto (*with* Yoshikawa, Toshio) The d-distance property of d-symbolic quasiperiodic sequences. (English summary) **94f:11014**
Jackson, Wen-Ai (*with* Wild, Peter) Relations between two perfect ternary sequence constructions. (English summary) **94e:11019**
Kaneko, Masanobu (*with* Odagaki, Takashi) Self-similarity in a class of quadratic-quasiperiodic chains. (English summary) **94h:11018**
Korec, Ivan The $3x + 1$ problem, generalized Pascal triangles and cellular automata. (English summary) **94g:11019**
Mauduit, Christian *see* **Arnoux, Pierre; et al., 94m:11028**
Odagaki, Takashi *see* **Kaneko, Masanobu, 94h:11018**
Shallit, Jeffrey *see* **Allouche, Jean-Paul, 94c:11021**
Shiokawa, Iekata *see* **Arnoux, Pierre; et al., 94m:11028**
Tamura, Jun-ichi *see* **Arnoux, Pierre; et al., 94m:11028**
Wild, Peter *see* **Jackson, Wen-Ai, 94e:11019**
Yoshikawa, Toshio *see* **Iguchi, Kazumoto, 94f:11014**

Items with secondary classifications in 11B85

Avishai, Yshai (*with* Berend, Daniel) Trace maps for arbitrary substitution sequences. (English summary) **94h:82004**
Becker, Paul-Georg Automatische Folgen und Transzendenz in positiver Charakteristik. [Automata sequences and transcendence in positive characteristic] **94h:11065**
Berend, Daniel *see* **Avishai, Yshai, 94h:82004**
Berthé, Valérie Fonction ζ de Carlitz et automates. (French summary) [The Carlitz ζ-function and automata] **94k:11082**
Michel, Pascal Busy beaver competition and Collatz-like problems. (English summary) **94f:03048**
Randé, Bernard Récurrences 2- et 3-mahlériennes. (French summary) [2- and 3-Mahler recurrences] **94m:11019**

11B99 None of the above, but in this section

Arkin, Joseph (*with* Arney, David C.; Luchins, Edith H.) A function whose values are integers. II. (English summary) **94h:11019**
Arney, David C. *see* **Arkin, Joseph; et al., 94h:11019**
Luchins, Edith H. *see* **Arkin, Joseph; et al., 94h:11019**
Narayanan, A. *see* **Ravichandran, V., 94m:11031**
Ravichandran, V. (*with* Narayanan, A.) Proofs for Ramanujan's formulas. (English summary) **94m:11031**

Items with secondary classifications in 11B99

Conway, J. H. On numbers and games. **94m:01040**
Hanlon, Bryce *see* **Spake, Reuben, 94b:20059**
Ruzsa, Imre Z. Solving a linear equation in a set of integers. I. **94k:11112**
Spake, Reuben (*with* Hanlon, Bryce) Archimedean components of $\mathscr{P}(\mathbf{Z})$. (English summary) **94b:20059**
Zemyan, Stephen M. On some integral representational formulas for Schwarzian coefficients with an application to number theory. (English summary) **94a:30020**

11Cxx Polynomials and matrices

11C08 Polynomials [see also 13F20]

Bacquet, Géraldine Produits de polynômes en plusieurs variables: expressions du reste dans une inégalité de Bombieri. (English and French summaries) [Products of polynomials in many variables: expressions of the remaining terms in an inequality of Bombieri] **94j:11026**
Boyd, David W. Bounds for the height of a factor of a polynomial in terms of Bombieri's norms. I. The largest factor. (English summary) **94m:11032a**
— Bounds for the height of a factor of a polynomial in terms of Bombieri's norms. II. The smallest factor. (English summary) **94m:11032b**
Dubickas, Artūras An estimation of the difference between two zeros of a polynomial. (English summary) **94c:11022**
Győry, Kálmán Some new results connected with resultants of polynomials and binary forms. **94i:11019**
Halter-Koch, Franz (*with* Narkiewicz, Władysław) Polynomial mappings defined by forms with a common factor. **94g:11020**
Langevin, Michel Cas d'égalité pour le théorème de Mason et applications de la conjecture (abc). (English and French summaries) [Extremal cases for Mason's theorem and applications of the (abc) conjecture] **94j:11027**
Matveev, E. M. Arithmetic properties of the values of generalized binomials. (Russian. Russian summary) **94j:11028**
Nanjundiah, T. S. A note on an identity of Ramanujan. **94c:11023**
Narkiewicz, Władysław *see* **Halter-Koch, Franz, 94g:11020**

Items with secondary classifications in 11C08

Burde, Klaus Polynome, die nach jedem natürlichen Modul eine Restklassenabbildung vermitteln. [Polynomials which for each natural number modulus result in a residue class mapping] **94m:11023**
— Differenzenschemata und Darstellungspolynome für Restklassenabbildungen modulo m. (German summary) [Difference schemes and representation polynomials for residue class mappings modulo m] **94k:11022**

Chabert, Jean-Luc (*with* Gerboud, Gilbert) Polynômes à valeurs entières et binômes de Fermat. (English and French summaries) [Integer-valued polynomials and Fermat binomials] **94c:13020**
Gerboud, Gilbert Substituabilité d'un anneau de Dedekind. (English and French summaries) [Substitutability of a Dedekind domain] **94e:13039**
— *see also* **Chabert, Jean-Luc, 94c:13020**
Maier, Helmut Cyclotomic polynomials with large coefficients. **94g:11074**
Parry, Walter Growth series of Coxeter groups and Salem numbers. **94e:20043**
Pintér, Ákos On the number of simple zeros of certain polynomials. **94h:11028**
Prešić, S. A way of reducing the factorization problem in $\mathbf{Z}[x]$ to the factorization problem in $\mathbf{Z}$. (English summary) **94h:12001**

11C20 Matrices, determinants [see also 15A36]

Acosta-de-Orozco, Maria T. (*with* Gomez-Calderon, Javier) Matrix powers over finite fields. (English summary) **94c:11024**
Beth, Thomas *see* **Jungnickel, Dieter; et al., 94m:11033**
Bourque, Keith (*with* Ligh, Steve) Matrices associated with classes of arithmetical functions. (English summary) **94k:11030**
Geiselmann, Willi *see* **Jungnickel, Dieter; et al., 94m:11033**
Gomez-Calderon, Javier *see* **Acosta-de-Orozco, Maria T., 94c:11024**
Jungnickel, Dieter (*with* Beth, Thomas; Geiselmann, Willi) A note on orthogonal circulant matrices over finite fields. **94m:11033**
Ligh, Steve *see* **Bourque, Keith, 94k:11030**
Mornhinweg, David (*with* Shapiro, Daniel B.; Valente, K. G.) The principal axis theorem over arbitrary fields. **94h:11020**
Shapiro, Daniel B. *see* **Mornhinweg, David; et al., 94h:11020**
Shou, Pei Gen A comment on Waring's problem concerning integer square matrices. (Chinese. Chinese summary) **94m:11034**
Valente, K. G. *see* **Mornhinweg, David; et al., 94h:11020**

Items with secondary classifications in 11C20

Bhowmik, Gautami Divisor functions of integer matrices: evaluations, average orders and applications. (English summary) **94b:11096**
Eğecioğlu, Ömer A combinatorial generalization of a Putnam problem. **94f:11012**
Frejman, Dariusz On Fermat's equation in the set of Fibonacci matrices. (English summary) **94i:11024**
Gomez-Calderon, Javier On the stabilizer of companion matrices. **94m:15011**
ten Have, Gabrielle Nicoline ★ Diophantine analysis of matrices. (Dutch summary) **94j:11062**
Prokip, V. M. Common unital divisors of polynomial matrices over an arbitrary field. (Russian. Russian summary) **94i:15020**

11Dxx Diophantine equations [see also 11Gxx, 14Gxx]

Items with secondary classifications in 11Dxx

Houzel, Christian Introduction a l'histoire de l'analyse diophantienne. [Introduction to the history of Diophantine analysis] **94j:11003**

11D04 Linear equations

Browkin, J. (*with* Brzeziński, Juliusz) Some remarks on the *abc*-conjecture. (English summary) **94g:11021**
Brzeziński, Juliusz *see* **Browkin, J., 94g:11021**
Drmota, Michael On linear Diophantine equations and Fibonacci numbers. (English summary) **94e:11020**
Kasatkin, V. N. *see* **Perekhod, I. A., 94f:11015**
Perekhod, I. A. (*with* Kasatkin, V. N.) A universal algorithm for solving linear Diophantine equations and inequalities. (Russian) **94f:11015**

Items with secondary classifications in 11D04

Jia, Rong Qing Multivariate discrete splines and linear Diophantine equations. **94h:41019**
Schlickewei, Hans Peter (*with* Schmidt, Wolfgang M.) Linear equations in members of recurrence sequences. **94h:11004**
Schmidt, Wolfgang M. *see* **Schlickewei, Hans Peter, 94h:11004**

11D09 Quadratic and bilinear equations

Altındiş, H. Generalization of the set $\{1, 2, 5\}$. (English summary) **94j:11029**
Dujella, Andrej Generalization of a problem of Diophantus. **94k:11031**
Kozhegel'dinov, S. Sh. A search for the basic Heron triangles. (Russian. English, Russian and Kazakh summaries) **94j:11030**
Zelator, Konstantine Dabmian On independent Pythagorean numbers. **94i:11020**

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Beardon, A. F. Pell's equation and two generator free Möbius groups. **94m:11052**
Buraux-Bourgeois, Bénédicte L'analyse diophantienne chez Lagrange. [Diophantine analysis in Lagrange] **94j:11002**
Cao, Zhen Fu Fermat's last theorem: a proof of Abel's conjecture. **94m:11036**
Chalk, J. H. H. Inequalities for Pell equations and Fuchsian groups. **94a:11048**
(Gauss, Carl Friedrich) *see* **Waterhouse, William C., 94m:11004**
(Germain, Sophie) *see* **Waterhouse, William C., 94m:11004**
Kaplan, Pierre (*with* Leonard, Philip A.) Idéaux négativement réduits d'un corps quadratique réel et un problème d'Eisenstein. [Negatively reduced ideals of a real quadratic field and a problem of Eisenstein] **94j:11104**
Karpinskiĭ, F. G. Solution of a Diophantine equation of the form $(x+a)^l + (x+b)^l = x^l + (x+c)^l$. (Russian. English and Russian summaries) **94d:11015**
Komatsu, Kenzo (*with* Nodera, Takashi) On unramified Galois extensions of certain algebraic number fields. (English summary) **94i:11089**
Leonard, Philip A. *see* **Kaplan, Pierre, 94j:11104**
Marchisotto, Elena Anne Connections in mathematics: an introduction to Fibonacci via Pythagoras. **94g:01003**
Nodera, Takashi *see* **Komatsu, Kenzo, 94i:11089**
Rickert, John H. Simultaneous rational approximations and related Diophantine equations. (English summary) **94i:11043**
Sheingorn, Mark The $\sqrt{p}$ Riemann surface. **94j:11046**
Waterhouse, William C. A counterexample for Germain. **94m:11004**
Xu, Zhao Yu Optimal approximation of square roots. (Chinese. English summary) **94f:11060**
Zelator, Konstantine Dabmian The Diophantine equation $x^2 + a^2y^m = z^{2n}$ with $(x, ay) = 1$. **94a:11038**

11D25 Cubic and quartic equations

Avanesov, È. T. On a Diophantine problem. (Russian. Russian summary) (*see* **94f:00014**)
Bhargava, Srinivasamurthy On a family of Ramanujan's formulas for sums of fourth powers. (English summary) **94a:11033**
Cao, Yu Shu *see* **Cao, Zhen Fu, 94a:11034**
Cao, Zhen Fu (*with* Cao, Yu Shu) Solutions to the Diophantine equation $y^2 + D^n = x^3$. (Chinese. English and Chinese summaries) **94a:11034**
Chahal, Jasbir Singh Some arithmetic functions associated with Diophantine equations. **94f:11016**
Cross, James T. In the Gaussian integers, $\alpha^4 + \beta^4 \neq \gamma^4$. **94d:11012**
Cucurezeanu, Ion An elementary solution of Lucas' problem. (English summary) **94c:11025**
Cusick, T. W. On Perrine's generalized Markoff equations. (English summary) **94d:11013**
Kashihara, Kenji Explicit complete solution in integers of a class of equations $(ax^2 - b)(ay^2 - b) = z^2 - c$. (English summary) **94j:11031**
Lou, Yuan Bing *see* **Ren, Jian Hua, 94j:11033**
Mignotte, Maurice Verification of a conjecture of E. Thomas. (English summary) **94m:11035**
Pintér, Ákos On a Diophantine problem of P. Erdős. **94j:11032**
Ren, Jian Hua (*with* Lou, Yuan Bing) Unsolvability of some classes of Diophantine equations of higher degree. (Chinese. English and Chinese summaries) **94j:11033**
Sinha, T. N. The Diophantine equation $a + bv + cv^2 + dv^3 + ev^4 = w^2$. **94f:11017**
Tang, Jian Er The indeterminate equations $x^3 + y^3 = z^2$ and $x^3 + y^3 = z^4$. (Chinese. Chinese summary) **94e:11021**
Thomas, Emery Solutions to infinite families of complex cubic Thue equations. **94g:11022**
Top, Jaap Fermat's "primitive solutions" and some arithmetic of elliptic curves. (English summary) **94d:11014**
Tzanakis, Nikos Explicit solution of a class of quartic Thue equations. **94e:11022**

Items with secondary classifications in 11D25

Altındiş, H. Generalization of the set $\{1, 2, 5\}$. (English summary) **94j:11029**
Ayad, Mohamed Périodicité (mod q) des suites elliptiques et points S-entiers sur les courbes elliptiques. (English and French summaries) [Periodicity (mod q) of elliptic sequences and S-integer points on elliptic curves] **94f:11009**
Dofs, Erik On extensions of 1 chains. **94k:11017**
(Gauss, Carl Friedrich) *see* **Waterhouse, William C., 94m:11004**
(Germain, Sophie) *see* **Waterhouse, William C., 94m:11004**
Heath-Brown, D. R. (*with* Lioen, W. M.; te Riele, H. J. J.) On solving the Diophantine equation $x^3 + y^3 + z^3 = k$ on a vector computer. (English summary) **94f:11132**
Lioen, W. M. *see* **Heath-Brown, D. R.; et al., 94f:11132**
te Riele, H. J. J. *see* **Heath-Brown, D. R.; et al., 94f:11132**
Srinivasan, Seshadri Two results in number theory. (English summary) **94e:11106**
Thérond, Jean-Daniel Extensions cycliques cubiques monogènes de l'anneau des entiers d'un corps quadratique imaginaire. [Monogenic cubic cyclic extensions of the ring of integers of an imaginary quadratic field] **94g:11093**
Walsh, P. G. A quantitative version of Runge's theorem on Diophantine equations. **94a:11037**
Waterhouse, William C. A counterexample for Germain. **94m:11004**

11D41 Higher degree equations; Fermat's equation

Asaeda, You *see* **Takakuwa, Kei, 94m:11042** *and* **94m:11043**
Balasubramanian, Ramachandran (*with* Shorey, T. N.) On the equation $f(x+1)\cdots f(x+k) = f(y+1)\cdots f(y+mk)$. **94h:11021**
Baxa, Christoph A note on Diophantine representations. **94a:11035**
Beukers, Frits Fermat's conjecture: recent results. (Dutch) **94f:11018**
Bobrov, A. V. A proof of the great Fermat theorem? (Russian) **94j:11034**
Brindza, B. On the number of solutions of Thue's equation. **94i:11021**
Cao, Zhen Fu Fermat's last theorem: a proof of Abel's conjecture. **94m:11036**
Cikánek, Petr A special extension of Wieferich's criterion. (English summary) **94g:11023**
Cox, David A. Introduction to Fermat's last theorem. **94i:11022**
Darmon, Henri The equation $x^4 - y^4 = z^p$. **94m:11037**
— The equations $x^n + y^n = z^2$ and $x^n + y^n = z^3$. **94i:11023**
Dem'yanenko, V. A. Elliptic functions and Fermat's equation. (Russian. Russian summary) **94a:11036**
Frejman, Dariusz On Fermat's equation in the set of Fibonacci matrices. (English summary) **94i:11024**
Gardeazabal Quintero, Alvaro (*with* Vasco Uribe, Carlos) An elementary conjecture equivalent to Fermat's last theorem. (Spanish) **94k:11032**
Gorodnichiĭ, V. V. On an investigation in a cyclotomic field of some forms of equations. (Russian) **94m:11038**
Gouvêa, Fernando Q. "A marvelous proof". **94k:11033**
Grounds, W. V. (*with* Silberger, D. M.) An elementary calculus view towards Fermat's last theorem. (English summary) **94k:11034**
Grytczuk, Aleksander (*with* Schinzel, Andrzej) On Runge's theorem about Diophantine equations. **94i:11025**

— On the equation of Fermat in the second case. (English and French summaries) **94e:11023**
Jackson, Allyn Update on proof of Fermat's last theorem. **94m:11039**
Karpinskiĭ, F. G. Solution of a Diophantine equation of the form $(x+a)^l+(x+b)^l=x^l+(x+c)^l$. (Russian. English and Russian summaries) **94d:11015**
Kleiman, Howard On LBB hyperelliptic fields. **94b:11026**
Le, Mao Hua Lower bounds for the solutions in the second case of Fermat's equation with prime power exponents. **94j:11035**
— A note on the Diophantine equation $x^2+4D=y^p$. (English summary) **94j:11036**
Mignotte, Maurice Un critère élémentaire pour l'équation de Catalan. (French summary) [An elementary criterion for the Catalan equation] **94m:11040**
Moree, Pieter (*with* te Riele, H. J. J.; Urbanowicz, Jerzy) Divisibility properties of integers x, k satisfying $1^k+\cdots+(x-1)^k=x^k$. (English summary) **94m:11041**
Mueller, Julia The *abc*-inequality and the generalized Fermat equation in function fields. **94e:11024**
Nitaj, Abderrahmane An algorithm for finding good *abc*-examples. (English and French summaries) **94k:11035**
Ribenboim, Paulo Density results for families of Diophantine equations. (English and French summaries) **94d:11016**
— Density results on families of Diophantine equations with finitely many solutions. **94h:11022**
Ribet, Kenneth A. Modular elliptic curves and Fermat's last theorem. (English summary) **94h:11023**
te Riele, H. J. J. *see* **Moree, Pieter; et al., 94m:11041**
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Skula, Ladislav The Kummer system of congruences and index of irregularity. **94h:11024**
— The orders of solutions of the Kummer system of congruences. (English summary) **94h:11025**
Takakuwa, Kei (*with* Asaeda, You) On a conjecture on Pythagorean numbers. **94m:11042**
— (*with* Asaeda, You) On a conjecture on Pythagorean numbers. II. **94m:11043**
Urbanowicz, Jerzy *see* **Moree, Pieter; et al., 94m:11041**
Vasco Uribe, Carlos *see* **Gardeazabal Quintero, Alvaro, 94k:11032**
Walsh, P. G. A quantitative version of Runge's theorem on Diophantine equations. **94a:11037**
Wan, Zhe Xian An introduction to Fermat's last theorem. (Chinese. Chinese summary)
de Weger, B. M. M. Correction to the paper: "A hyperelliptic Diophantine equation related to imaginary quadratic number fields with class number 2" [J. Reine Angew. Math. 427 (1992), 137–156; MR 93d:11034]. **94h:11026**
Zelator, Konstantine Dabmian The Diophantine equation $x^2+a^2y^m=z^{2n}$ with $(x,ay)=1$. **94a:11038**

Items with secondary classifications in 11D41

Atiyah, Michael Mathematics as a basic science. **94m:00001**
Baragar, Arthur The Hurwitz equations. **94e:11071**
Bhargava, Srinivasamurthy On a family of Ramanujan's formulas for sums of fourth powers. (English summary) **94a:11033**
Denis, Laurent Le théorème de Fermat-Goss. (English summary) [The Fermat-Goss theorem] **94h:11103**
Kaljulaid, U. Mordell's problem. (Estonian. English and Russian summaries) **94d:11042**
Korec, Ivan Lower bounds for perfect rational cuboids. (English summary) **94a:11196**
Ribet, Kenneth A. Wiles proves Taniyama's conjecture; Fermat's last theorem follows. **94e:11065**
Rubin, K. (*with* Silverberg, Alice) A report on Wiles' Cambridge lectures. (English summary) **94k:11062**
Silverberg, Alice *see* **Rubin, K., 94k:11062**
Wooley, Trevor D. A note on symmetric diagonal equations. **94d:11076**

11D57 Multiplicative and norm form equations

Győry, Kálmán On arithmetic graphs associated with integral domains. II. **94e:11025**
— Some recent applications of S-unit equations. (English summary) **94e:11026**
— Upper bounds for the numbers of solutions of unit equations in two unknowns. (Lithuanian summary) **94a:11039**
— Some applications of decomposable form equations to resultant equations. **94k:11036**
— On the numbers of families of solutions of systems of decomposable form equations. **94e:11027**
Langmann, Klaus Lösungsanzahl der Thue-Gleichung. [Number of solutions of the Thue equation] **94b:11027**
— Eindeutigkeit der Lösungen der Gleichung $x^d+y^d=ap$. [Uniqueness of the solutions of the equation $x^d+y^d=ap$] **94h:11027**
Pethő, Attila Systems of norm equations over cubic number fields. **94f:11019**
— Über kubische Ausnahmeeinheiten. (German summary) [On cubic exceptional units] **94d:11017**
Rajeswari, V. *see* **Srinivasa Rao, K.; et al., 94a:11040**
Santhanam, T. S. *see* **Srinivasa Rao, K.; et al., 94a:11040**
Smart, N. P. Solving a quartic discriminant form equation. (English summary) **94i:11026**
Srinivasa Rao, K. (*with* Santhanam, T. S.; Rajeswari, V.) Multiplicative Diophantine equations. (English summary) **94a:11040**
Thomas, Emery Solutions to certain families of Thue equations. (English summary) **94b:11028**

Items with secondary classifications in 11D57

Evertse, Jan-Hendrik (*with* Győry, Kálmán) Lower bounds for resultants. I. **94h:11036**
Győry, Kálmán *see* **Evertse, Jan-Hendrik, 94h:11036**
Schmidt, Wolfgang M. ★ Diophantine approximations and Diophantine equations. **94f:11059**

11D61 Exponential equations

Brindza, B. The Catalan equation over finitely generated integral domains. **94e:11028**
Cao, Zhen Fu On the Diophantine equation $ax^2+by^2=p^z$. **94a:11041**
Cohn, J. H. E. The Diophantine equation $x^2+C=y^n$. **94k:11037**
— The Diophantine equation $x^2+3=y^n$. **94i:11027**
Grytczuk, Jarosław Polynomial values of discriminants of linear recurrences. (English summary) **94f:11020**
Hering, Christoph A remark on two Diophantine equations of Peter Cameron. **94c:11026**
Le, Mao Hua A note on the Diophantine equation $(x^m-1)/(x-1)=y^n$. **94e:11029**
— On the Diophantine equation $D_1x^2+D_2=2^{n+2}$. **94e:11030**
— On the number of solutions of the Diophantine equation $x^2+D=p^n$. (English and French summaries) **94j:11037**
— A note on the Diophantine equation $x^{p-1}-1=py^q$. (English summary) **94j:11038**
Mignotte, Maurice On a class of equations of the form $a^n+b^n=z^2$. (Italian. English summary) **94f:11021**
Pethő, Attila The Pell sequence contains only trivial perfect powers. **94e:11031**
Pintér, Ákos On the number of simple zeros of certain polynomials. **94h:11028**
Ramasamy, A. M. S. Ramanujan's equation. **94c:11027**
Schlickewei, Hans Peter (*with* Schmidt, Wolfgang M.) On polynomial-exponential equations. **94e:11032**
Schmidt, Wolfgang M. *see* **Schlickewei, Hans Peter, 94e:11032**
Scott, Reese On the equations $p^x-b^y=c$ and $a^x+b^y=c^z$. (English summary) **94k:11038**
Smart, N. P. A class of Diophantine equations. (English summary) **94a:11042**
Terai, Nobuhiro The Diophantine equation $x^2+q^m=p^n$. **94e:11033**

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Asaeda, You *see* **Takakuwa, Kei, 94m:11042** *and* **94m:11043**
Pethő, Attila (*with* Tichy, Robert F.) S-unit equations, linear recurrences and digit expansions. (English summary) **94a:11013**
Ribenboim, Paulo Density results on families of Diophantine equations with finitely many solutions. **94h:11022**
Schmidt, Wolfgang M. ★ Diophantine approximations and Diophantine equations. **94f:11059**
Takakuwa, Kei (*with* Asaeda, You) On a conjecture on Pythagorean numbers. **94m:11042**
— (*with* Asaeda, You) On a conjecture on Pythagorean numbers. II. **94m:11043**
Tichy, Robert F. *see* **Pethő, Attila, 94a:11013**

11D68 Rational numbers as sums of fractions

Beeckmans, Laurent The splitting algorithm for Egyptian fractions. (English summary) **94a:11043**
Brenton, Lawrence (*with* Drucker, Daniel S.) On the number of solutions of $\sum_{j=1}^{s}(1/x_j)+1/(x_1\cdots x_s)=1$. (English summary) **94b:11029**
Drucker, Daniel S. *see* **Brenton, Lawrence, 94b:11029**
Fischer, Hans Jürgen Die Summe der Reziproken der natürlichen Zahlen ohne Ziffer 9. (German summary) [The sum of the reciprocals of the natural numbers not containing the digit 9]
Friedman, Charles N. Sums of divisors and Egyptian fractions. (English summary) **94j:11039**

Items with secondary classifications in 11D68

Hochwald, Scott H. (*with* Tong, Jing Cheng) On the reciprocals of the Fibonacci numbers. **94h:11005**
Tong, Jing Cheng *see* **Hochwald, Scott H., 94h:11005**

11D72 Equations in many variables [see also 11P55]

Choudhry, Ajai Multigrade chains with odd exponents. (English summary) **94a:11044**
Shlapentokh, Alexandra Hilbert's tenth problem for rings of algebraic functions of characteristic 0. **94d:11018**

Items with secondary classifications in 11D72

Li, Hong Ze An upper bound for solutions to additive equations. (Chinese. English and Chinese summaries) **94f:11105**
Nitaj, Abderrahmane An algorithm for finding good *abc*-examples. (English and French summaries) **94k:11035**
Vinogradov, A. I. The Hardy-Littlewood conjecture. An algebraic approach. (Russian. Russian summary) **94i:11083**

11D75 Diophantine inequalities [see also 11J25]

Halter-Koch, Franz Über Längen nicht-eindeutiger Faktorisierungen und Systeme linearer diophantischer Ungleichungen. (English summary) [On lengths of nonunique factorizations and systems of linear Diophantine inequalities] **94f:11022**
Thunder, Jeffrey Lin The number of solutions of bounded height to a system of linear equations. (English summary) **94a:11045**

Items with secondary classifications in 11D75

Guthmann, Andreas Wieviele k-stellige Fibonaccizahlen gibt es? [How many k-ary Fibonacci numbers are there?] **94a:11022**
Kasatkin, V. N. *see* **Perekhod, I. A., 94f:11015**
Perekhod, I. A. (*with* Kasatkin, V. N.) A universal algorithm for solving linear Diophantine equations and inequalities. (Russian) **94f:11015**
Schmidt, Wolfgang M. Northcott's theorem on heights. I. A general estimate. (English summary) **94b:11054**

11D79 Congruences in many variables

Calderón, Catalina (*with* de Velasco, M. J.) Regular solutions of a congruence system. (English summary) **94a:11046**

Moreno, C. J. *see* **Moreno, Oscar, 94k:11039**
Moreno, Oscar (*with* Moreno, C. J.) An elementary proof of a partial improvement to the Ax-Katz theorem. (English summary) **94k:11039**
de Velasco, M. J. *see* **Calderón, Catalina, 94a:11046**
Wang, Yuan[1] Small solutions of congruences. (English summary) **94j:11040**

Items with secondary classifications in 11D79

Cochrane, Todd On representing the multiple of a number by a quadratic form. **94c:11032**
Hanine, El Mostafa Équations diophantiennes modulo p^2. [Diophantine equations modulo p^2] **94c:11028**
Skorobogatov, A. N. Exponential sums, the geometry of hyperplane sections, and some Diophantine problems. (English summary) **94d:11060**
Sun, Qi (*with* Wan, Da Qing) Permutation polynomials in several indeterminates over $\mathbf{Z}/m\mathbf{Z}$. (English and Chinese summaries) **94c:11117**
Wan, Da Qing *see* **Sun, Qi, 94c:11117**
Wolfmann, Jacques The number of solutions of certain diagonal equations over finite fields. (English summary) **94j:11055**

11D85 Representation problems [see also 11P55]

Adiga, Chandrashekar On the representations of an integer as a sum of two or four triangular numbers. (English summary) **94b:11030**
Lippok, Frank On the representation of 1 by binary cubic forms of positive discriminant. (English summary) **94h:11029**
Mit'kin, D. A. The number of terms in the Hilbert-Kamke problem in prime numbers. (Russian. Russian summary) **94f:11023**

Items with secondary classifications in 11D85

Adiga, Chandrashekar *see* **Bhargava, Srinivasamurthy; et al., 94b:11099**
Bhargava, Srinivasamurthy (*with* Adiga, Chandrashekar; Somashekara, D. D.) Three-square theorem as an application of Andrews' identity. **94b:11099**
Choi, Kwok-Kwong (*with* Liu, Ming Chit; Tsang, Kai Man) Small prime solutions of linear equations. II. **94i:11080**
Deshouillers, Jean-Marc (*with* Dress, François) Sums of 19 biquadrates: on the representation of large integers. **94g:11079**
Dress, François *see* **Deshouillers, Jean-Marc, 94g:11079**
Liu, Ming Chit *see* **Choi, Kwok-Kwong; et al., 94i:11080**
Nguyễn Quôc Thắng Representation of natural numbers by a cubic form in seven variables. (Russian. Russian summary) **94g:11080**
Somashekara, D. D. *see* **Bhargava, Srinivasamurthy; et al., 94b:11099**
Tsang, Kai Man *see* **Choi, Kwok-Kwong; et al., 94i:11080**

11D88 p-adic and power series fields

Hanine, El Mostafa Équations diophantiennes modulo p^2. [Diophantine equations modulo p^2] **94c:11028**
Wang, Jun On the Poincaré series for diagonal forms over algebraic number fields. **94a:11047**

Items with secondary classifications in 11D88

Győry, Kálmán Some recent applications of S-unit equations. (English summary) **94e:11026**

11D99 None of the above, but in this section

Items with secondary classifications in 11D99

Mueller, Julia The abc-inequality and the generalized Fermat equation in function fields. **94e:11024**
Nair, Radhakrishnan On certain solutions of the Diophantine equation $x - y = p(z)$. **94a:11124**
Videla, Carlos R. Hilbert's tenth problem for rational function fields in characteristic 2. **94b:11122**

11Exx Forms and linear algebraic groups {For quadratic forms in linear algebra, see 15A63.}

Items with secondary classifications in 11Exx

Rajwade, A. R. ★ Squares. (English summary) **94m:11047**

11E04 Quadratic forms over general fields

Hurrelbrink, Jürgen (*with* Rehmann, Ulf) Splitting patterns of excellent quadratic forms. **94h:11030**
Rehmann, Ulf *see* **Hurrelbrink, Jürgen, 94h:11030**
Ware, Roger Quadratic forms and Galois cohomology over formally real fields. **94e:11034**

Items with secondary classifications in 11E04

Aravire, Roberto (*with* Jacob, William B.; Mammone, Pasquale) On the u-invariant for quadratic forms and the linkage of cyclic algebras. **94k:11045**
Jacob, William B. *see* **Aravire, Roberto; et al., 94k:11045**
Kozioł, Krzysztof On a decomposition of the Witt group into direct sum of cyclic groups. (English summary) **94c:11034**
Mammone, Pasquale *see* **Aravire, Roberto; et al., 94k:11045**
Mináč, Ján (*with* Smith, Tara L.) W-groups and values of binary forms. (English summary) **94e:11036**
Skrzypkowska, E. (*with* Wowk, Cz.) Linkage and the basic part of Witt rings. (English summary) **94c:11035**
Smith, Tara L. *see* **Mináč, Ján, 94e:11036**
Spinas, Otmar Iterated forcing in quadratic form theory. (English summary) **94k:03068**
Wowk, Cz. *see* **Skrzypkowska, E., 94c:11035**

11E08 Quadratic forms over local rings and fields

James, Donald G. Primitive representations by unimodular quadratic forms. (English summary) **94k:11040**
Katsurada, Hidenori Rationality of a certain formal power series attached to local densities of quadratic forms. (English summary) **94k:11041**
Xu, Fei Integral spinor norms in dyadic local fields. II. **94i:11028**
— Integral spinor norms in dyadic local fields. I. (English summary) **94b:11031**

Items with secondary classifications in 11E08

Conner, P. E. *see* **Perlis, R.; et al., 94m:11044**
Kozioł, Krzysztof On a decomposition of the Witt group into direct sum of cyclic groups. (English summary) **94c:11034**
Litherland, R. *see* **Perlis, R.; et al., 94m:11044**
Nguyễn Quôc Thắng Hermitian forms over division algebras over real function fields. (English summary) **94a:11052**
— Corrigendum: "Hermitian forms over division algebras over real function fields" [Manuscripta Math. **78** (1993), no. 1, 9–35; MR 94a:11052]. **94m:11048**
Perlis, R. (*with* Szymiczek, Kazimierz; Conner, P. E.; Litherland, R.) Matching Witts with global fields. **94m:11044**
Skrzypkowska, E. (*with* Wowk, Cz.) Linkage and the basic part of Witt rings. (English summary) **94c:11035**
Szczepanik, Lucyna Witt equivalence of local and global fields of characteristic 2. **94h:11038**
Szymiczek, Kazimierz Witt equivalence of global fields. II. Relative quadratic extensions. (English summary) **94g:11024**
— *see also* **Perlis, R.; et al., 94m:11044**
Wowk, Cz. *see* **Skrzypkowska, E., 94c:11035**

11E10 Forms over real fields

Items with secondary classifications in 11E10

Grenier, Douglas On the shape of fundamental domains in $\mathrm{GL}(n,\mathbf{R})/\mathrm{O}(n)$. (English summary) **94g:22024**
Marshall, Murray A. Separating families for semi-algebraic sets. (English summary) **94c:14048**

11E12 Quadratic forms over global rings and fields

Conner, P. E. *see* **Perlis, R.; et al., 94m:11044**
Cortella, Anne Un contre-exemple au principe de Hasse pour les similitudes de formes bilinéaires. (English and French summaries) [A counterexample to the Hasse principle for similarities of bilinear forms] **94k:11042**
Earnest, A. G. The distribution of genera among quadratic spaces over global fields. (English summary) **94c:11029**
Epkenhans, Martin On trace forms of algebraic number fields. **94h:11031**
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— (*with* Williams, Kenneth S.) An elementary remark on the distribution of integers representable by a positive-definite integral binary quadratic form. **94m:11045**

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11E20 General ternary and quaternary quadratic forms; forms of more than two variables

Aravire, Roberto (*with* Jacob, William B.; Mammone, Pasquale) On the u-invariant for quadratic forms and the linkage of cyclic algebras. **94k:11045**

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Ito, Shunji (*with* Tachii, Hiroko) A Diophantine algorithm and a reduction theory of ternary forms. **94k:11080**

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11E25 Sums of squares and representations by other particular quadratic forms

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Kachakhidze, N. On the representation of numbers by a direct sum of quadratic forms $x_1^2+x_2^2+x_3^2+x_4^2+x_1x_2+x_1x_3+x_2x_4$. (Russian and Georgian summaries) **94f:11024**

— On the representation of numbers by a direct sum of quadratic forms $x_1^2+x_1x_2+2x_2^2$. (Russian and Georgian summaries) **94m:11046**

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Merrill, Kathy D. (*with* Walling, Lynne H.) Sums of squares over function fields. (English summary) **94k:11046**

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Moroz, B. Z. On the representation of large integers by integral ternary positive definite quadratic forms. (English summary) **94a:11051**

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Williams, Kenneth S. *see* **Kaplan, Pierre, 94g:11025** *and* **94m:11045**

11E39 Bilinear and Hermitian forms

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11E45 Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)

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Kim, Myung-Hwan[1] Spinor generic theta-series. **94k:11051**

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Parson, L. Alayne Rational period functions and indefinite binary quadratic forms. III. **94f:11046**

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11E57 Classical groups [see also 14Lxx, 20Gxx]

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11E72 Galois cohomology of linear algebraic groups [see also 20G10]

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11E76 Forms of degree higher than two

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11E81 Algebraic theory of quadratic forms; Witt groups and rings [see also 19G12, 19G24]

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Ware, Roger Quadratic forms and Galois cohomology over formally real fields. **94e:11034**

11E88 Quadratic spaces; Clifford algebras [see also 15A63, 15A66]

Helmstetter, Jacques Clifford groups for arbitrary quadratic forms. (English summary) **94a:11054**
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11E95 p-adic theory

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11Fxx Discontinuous groups and automorphic forms [see also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx; for relations with quadratic forms, see 11E45]

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11F06 Structure of modular groups and generalizations; arithmetic groups [see also 20H05, 20H10, 22E40]

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Vulakh, L. Ya. Maximal Fuchsian subgroups of extended Bianchi groups. **94g:11028**
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Hilden, Hugh M. (*with* Lozano, María Teresa; Montesinos, José María) A characterization of arithmetic subgroups of $SL(2, \mathbf{R})$ and $SL(2, \mathbf{C})$. **94i:20088**
Ignatov, Yu. A. Rational nonfree points of the complex plane. II. (Russian) **94j:20048**
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11F11 Modular forms, one variable

Angel, Jeff (*with* Celniker, Nancy; Poulos, Steven; Terras, Audrey; Trimble, Cindy; Velasquez, Elinor) Special functions on finite upper half planes. **94h:11041**
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11F22 Relationship to Lie algebras and finite simple groups

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— On the classification of meromorphic $c = 24$ conformal field theories. **94i:81122**
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Koblitz, Neal ★ Introduction to elliptic curves and modular forms. (English summary) **94a:11078**
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11F55 Other groups and their modular and automorphic forms (several variables)

van Geemen, Bert (*with* van Straten, Duco) The cusp forms of weight 3 on $\Gamma_2(2, 4, 8)$. **94b:11039**
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Ibukiyama, Tomoyoshi On Jacobi forms and Siegel modular forms of half integral weights. **94a:11069**
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Matsumoto, Keiji (*with* Yoshida, Masaaki) Configuration space of 8 points on the projective line and a 5-dimensional Picard modular group. **94c:14038**
— Theta functions on the bounded symmetric domain of type $I_{2,2}$ and the period map of a 4-parameter family of $K3$ surfaces. **94m:32049**
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Salvati Manni, Riccardo (*with* Top, Jaap) Cusp forms of weight 2 for the group $\Gamma_2(4,8)$. **94e:11050**
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— (*with* Friedlander, John B.; Iwaniec, H.) Bounds for automorphic L-functions. **94c:11043**
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Goss, David Some integrals attached to modular forms in the theory of function fields. (English summary) **94c:11036**
Hoffstein, Jeffrey Eisenstein series and theta functions on the metaplectic group. **94h:11050**
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— On Hecke eigenforms of half-integral weight. **94f:11037**
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Krir, Mohamed Une version effective d'un théorème de Waldspurger. (English and French summaries) [An effective version of a theorem of Waldspurger] **94d:11025**
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11F67 Special values of automorphic L-series, periods of modular forms, cohomology, modular symbols

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— (*with* Zagier, Don) Rational period functions for PSL(2, **Z**). **94g:11033**
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Garrett, Paul B. (*with* Harris, Michael) Special values of triple product L-functions. **94e:11058**
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Fontaine, Jean-Marc Valeurs spéciales des fonctions L des motifs. (French summary) [Special values of L-functions of motives] **94f:11055**
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Gethner, Ellen Rational period functions with irrational poles are not Hecke eigenfunctions. **94d:11026**
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11F70 Representation-theoretic methods; automorphic representations over local and global fields

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— (*with* Jacquet, Hervé) Linear periods. **94k:11058**
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Carayol, Henri Variétés de Drinfel'd compactes, d'après Laumon, Rapoport et Stuhler. (French summary) [Compact Drinfel'd varieties, after Laumon, Rapoport and Stuhler] **94f:11050**

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Gelbart, Stephen Automorphic forms and Artin's conjecture. II. **94g:11103**
— On theta-series liftings for unitary groups. **94f:22023**
— (*with* Rogawski, Jonathan D.; Soudry, David) Periods of cusp forms and L-packets. (English and French summaries) **94m:11064**
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Harris, Michael Nonvanishing of L-functions of 2×2 unitary groups. (English summary) **94k:11057**
— (*with* Soudry, David; Taylor, Richard) l-adic representations associated to modular forms over imaginary quadratic fields. I. Lifting to $GSp_4(\mathbf{Q})$. **94d:11035**
Jabon, David (*with* Keys, C. David; Moy, Allen) An explicit Plancherel formula for U(2, 1). **94c:22016**
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Manderscheid, David Supercuspidal representations and the theta correspondence. **94j:22019a**
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11F72 Spectral theory; Selberg trace formula

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Bauer-Price, Pia The Selberg trace formula for imaginary quadratic fields. **94e:11059**
Bolte, Jens (*with* Steiner, Frank) The Selberg trace formula for bordered Riemann surfaces. (English summary) **94f:11049**
Efrat, Isaac Dynamics of the continued fraction map and the spectral theory of SL(2, Z). **94h:11052**
Gelbart, Stephen (*with* Rogawski, Jonathan D.; Soudry, David) Periods of cusp forms and L-packets. (English and French summaries) **94m:11064**
Guillopé, Laurent Fonctions zêta de Selberg et surfaces de géométrie finie. (English and French summaries) [Selberg zeta functions and surfaces of finite geometry] **94d:11032**
Jacquet, Hervé (*with* Lai, King F.; Rallis, Stephen) A trace formula for symmetric spaces. **94d:11033**
Khodakovskiĭ, A. M. Direct proof of energy conservation for the automorphic wave equation. (Russian. English and Russian summaries) **94m:11065**
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Bytsenko, A. A. (*with* Goncharov, Yu. P.) One more class of scalar Laplacian determinants connected with the quantum geometry of p-branes. **94a:58210**
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Huber, Heinz Kreisscheiben auf Riemannschen Flächen und Eigenwerte des Laplace-Operators. [Circular disks on Riemann surfaces and eigenvalues of the Laplace operator] **94d:58150**
Huntley, Jonathan (*with* Katznelson, Yonatan R.) Density theorems for congruence groups in real rank 1. **94i:11035**
Hurt, Norman E. Zeta functions and periodic orbit theory: a review. (English summary) **94d:58120**
Ivić, Aleksandar ★ Lectures on mean values of the Riemann zeta function. **94g:11061**
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Lyon, Bradford F. On zeta functions associated to the product of two Eisenstein series. **94d:11027**
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Phillips, Ralph S. (*with* Sarnak, Peter) Automorphic spectrum and Fermi's golden rule. **94i:58203**
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Venkov, A. B. Some relations between the analytical modular forms and Maass waveforms for PSL(2, Z). (English and Russian summaries) **94a:11067**
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Wallach, Nolan R. On the distribution of eigenvalues of the Laplacian of a locally symmetric space. **94a:58203**
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11F75 Cohomology of arithmetic groups

Ash, Avner (*with* McConnell, Mark) Experimental indications of three-dimensional Galois representations from the cohomology of SL(3, Z). (English summary) **94b:11045**
Blume-Nienhaus, Jürgen ★ Lefschetzzahlen für Galois-Operationen auf der Kohomologie arithmetischer Gruppen. (German) [Lefschetz numbers for Galois operations on the cohomology of arithmetic groups] **94j:11050**
Li, Jian-Shu (*with* Millson, John J.) On the first Betti number of a hyperbolic manifold with an arithmetic fundamental group. **94e:11062**
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Millson, John J. *see* **Li, Jian-Shu, 94e:11062**
Rohlfs, Jürgen (*with* Speh, Birgit) On cuspidal cohomology of arithmetic groups and cyclic base change. (English summary) **94i:11036**
— (*with* Schwermer, Joachim) Intersection numbers of special cycles. **94a:11075**
— (*with* Speh, Birgit) Lefschetz numbers and twisted stabilized orbital integrals. **94h:11053**
Schwermer, Joachim *see* **Rohlfs, Jürgen, 94a:11075**
Speh, Birgit *see* **Rohlfs, Jürgen, 94h:11053** *and* **94i:11036**

Items with secondary classifications in 11F75

Cai, Hui Jing *see* **Wang, Jian, 94a:11056**
Hida, Haruzo p-ordinary cohomology groups for SL(2) over number fields. **94g:11031**
Neumann, Walter D. (*with* Reid, Alan W.) Arithmetic of hyperbolic manifolds. **94c:57024**
— (*with* Reid, Alan W.) Rigidity of cusps in deformations of hyperbolic 3-orbifolds. **94c:57025**
Ohta, Masami On cohomology groups attached to towers of algebraic curves. **94c:11052**
Reid, Alan W. *see* **Neumann, Walter D., 94c:57024** *and* **94c:57025**
Schmidt, Claus-G. Relative modular symbols and p-adic Rankin-Selberg convolutions. **94g:11034**
Stern, Mark L_2-cohomology and index theory of noncompact manifolds. **94c:58195**
Wang, Jian (*with* Cai, Hui Jing) The analytic theory of quasifinitely generated Kleinian groups. III, IV. (Chinese. English and Chinese summaries) **94a:11056**

11F80 Galois properties

Harris, Michael (*with* Soudry, David; Taylor, Richard) l-adic representations associated to

modular forms over imaginary quadratic fields. I. Lifting to $GSp_4(\mathbf{Q})$. **94d:11035**
Rubin, K. (*with* Silverberg, Alice) A report on Wiles' Cambridge lectures. (English summary) **94k:11062**
Silverberg, Alice *see* **Rubin, K., 94k:11062**
Soudry, David *see* **Harris, Michael; et al., 94d:11035**
Taylor, Richard *see* **Harris, Michael; et al., 94d:11035**

Items with secondary classifications in 11F80

Ash, Avner (*with* McConnell, Mark) Experimental indications of three-dimensional Galois representations from the cohomology of $SL(3, \mathbf{Z})$. (English summary) **94b:11045**
Darmon, Henri The equations $x^n + y^n = z^2$ and $x^n + y^n = z^3$. **94i:11023**
Gelbart, Stephen Automorphic forms and Artin's conjecture. II. **94g:11103**
Krir, Mohamed Une extension de $\mathbf{Q}_p^{nr}$ sur laquelle $J_0(N)$ est semi-stable. (English and French summaries) [An extension of $\mathbf{Q}_p^{nr}$ on which $J_0(N)$ is semistable] **94f:11052**
Kurihara, Masato Ideal class groups of cyclotomic fields and modular forms of level 1. (English summary) **94j:11115**
Lario, Joan C. Serre's conjecture on Galois representations attached to Weil curves with additive reduction. (English summary) **94f:11034**
Ling, San The old subvariety of $J_0(pq)$ and the Eisenstein kernel in Jacobians. (English summary) **94h:11047**
— Congruences between cusp forms and the geometry of Jacobians of modular curves. **94a:11063**
McConnell, Mark *see* **Ash, Avner, 94b:11045**
Ramakrishna, Ravi On a variation of Mazur's deformation functor. **94h:11054**
Ramakrishnan, Dinakar Pure motives and automorphic forms. **94m:11134**
Ribet, Kenneth A. Modular elliptic curves and Fermat's last theorem. (English summary) **94h:11023**
— Wiles proves Taniyama's conjecture; Fermat's last theorem follows. **94e:11065**

11F85 *p*-adic theory, local fields [see also 14G20, 22E50]

Ramakrishna, Ravi On a variation of Mazur's deformation functor. **94h:11054**

Items with secondary classifications in 11F85

Guerzhoy, P. An approach to the p-adic theory of Jacobi forms. **94m:11057**
Hida, Haruzo p-adic L-functions of algebraic groups and p-adic Hecke algebras. (Japanese) **94c:11114**
Jacquet, Hervé (*with* Ye, Yang Bo) Relative Kloosterman integrals for GL(3). (English and French summaries) **94c:11047**
— Relative Kloosterman integrals for GL(3). II. **94c:11048**
van der Put, Marius Discrete groups, Mumford curves and theta functions. (English and French summaries) **94h:14021**
Rhodes, John A. p-adic hyperbolic planes and modular forms. **94d:11028**
Ye, Yang Bo *see* **Jacquet, Hervé, 94c:11047**

11F99 None of the above, but in this section

Items with secondary classifications in 11F99

Angel, Jeff (*with* Celniker, Nancy; Poulos, Steven; Terras, Audrey; Trimble, Cindy; Velasquez, Elinor) Special functions on finite upper half planes. **94h:11041**
Celniker, Nancy *see* **Angel, Jeff; et al., 94h:11041**
Poulos, Steven *see* **Angel, Jeff; et al., 94h:11041**
Terras, Audrey *see* **Angel, Jeff; et al., 94h:11041**
Trimble, Cindy *see* **Angel, Jeff; et al., 94h:11041**
Velasquez, Elinor *see* **Angel, Jeff; et al., 94h:11041**
Verjovsky, Alberto Arithmetic geometry and dynamics in the unit tangent bundle of the modular orbifold. **94i:58155**

11Gxx Arithmetic algebraic geometry (Diophantine geometry) [see also 11Dxx, 14Gxx, 14Kxx]

11G05 Elliptic curves over global fields [see also 14H52]

Beilinson, A. A. (*with* Levin, A.) The elliptic polylogarithm. **94m:11067**
Chahal, Jasbir Singh A note on the rank of quadratic twists of an elliptic curve. **94m:11068**
Cohen, Henri Elliptic curves. **94e:11063**
Connell, Ian Calculating root numbers of elliptic curves over **Q**. (English summary) **94i:11037**
David, Sinnou Autour d'une conjecture de S. Lang. (English summary) [On a conjecture of S. Lang] **94b:11046**
Fouvry, Étienne (*with* Nair, Mohan; Tenenbaum, Gérald) L'ensemble exceptionnel dans la conjecture de Szpiro. (English and French summaries) [The exceptional set in Szpiro's conjecture] **94a:11076**
— (*with* Pomykała, Jacek) Rang des courbes elliptiques et sommes d'exponentielles. (English summary) [Rank of elliptic curves and exponential sums] **94g:11037**
Kawachi, Mayumi (*with* Nakano, Shin) The 2-class groups of cubic fields and 2-descents on elliptic curves. (English summary) **94a:11077**
Kida, Masanari On the rank of an elliptic curve in elementary 2-extensions. **94j:11051**
Koblitz, Neal ★ Introduction to elliptic curves and modular forms. (English summary) **94a:11078**
Kuwata, Masato (*with* Wang, Lan) Topology of rational points on isotrivial elliptic surfaces. **94a:11079**
Lecacheux, Odile Courbes elliptiques et groupes de classes d'idéaux de corps quartiques. (English and French summaries) [Elliptic curves and ideal class groups of quartic fields] **94a:11080**
Levin, A. *see* **Beilinson, A. A., 94m:11067**
Masser, David (*with* Wüstholz, Gisbert) Galois properties of division fields of elliptic curves. **94d:11036**
Nair, Mohan *see* **Fouvry, Étienne; et al., 94a:11076**
Nakano, Shin *see* **Kawachi, Mayumi, 94a:11077**
Noda, Kazunari (*with* Wada, Hideo) All congruent numbers less than 10 000. **94e:11064**
Pomykała, Jacek *see* **Fouvry, Étienne, 94g:11037**
Ribet, Kenneth A. Wiles proves Taniyama's conjecture; Fermat's last theorem follows. **94e:11065**
Tenenbaum, Gérald *see* **Fouvry, Étienne; et al., 94a:11076**
Voloch, José Felipe Siegel's theorem for complex function fields. (English summary) **94j:11052**
Wada, Hideo *see* **Noda, Kazunari, 94e:11064**
Wang, Lan *see* **Kuwata, Masato, 94a:11079**
Wüstholz, Gisbert *see* **Masser, David, 94d:11036**

Items with secondary classifications in 11G05

Ayad, Mohamed Périodicité (mod q) des suites elliptiques et points S-entiers sur les courbes elliptiques. (English and French summaries) [Periodicity (mod q) of elliptic sequences and S-integer points on elliptic curves] **94f:11009**
Bernardi, Dominique (*with* Perrin-Riou, Bernadette) Variante p-adique de la conjecture de Birch et Swinnerton-Dyer (le cas supersingulier). (English and French summaries) [A p-adic version of the Birch and Swinnerton-Dyer conjecture (the supersingular case)] **94k:11071**
Beukers, Frits Fermat's conjecture: recent results. (Dutch) **94f:11018**
Bungert, Michael Construction of a cuspform of weight 3/2. **94f:11035**
Chahal, Jasbir Singh Some arithmetic functions associated with Diophantine equations. **94f:11016**
Connell, Ian Good reduction of elliptic curves in abelian extensions. **94a:11081**
Cox, David A. Introduction to Fermat's last theorem. **94i:11022**
Cremona, J. E. The analytic order of Ш for modular elliptic curves. (English summary) **94i:11041**
— (*with* Whitley, E.) Periods of cusp forms and elliptic curves over imaginary quadratic fields. (English summary) **94c:11046**
Darmon, Henri The equation $x^4 - y^4 = z^p$. **94m:11037**
— The equations $x^n + y^n = z^2$ and $x^n + y^n = z^3$. **94i:11023**
Dem'yanenko, V. A. Elliptic functions and Fermat's equation. (Russian. Russian summary) **94a:11036**
Fermigier, Stéfane Zéros des fonctions L de courbes elliptiques. (English and French summaries) [Zeros of L-functions of elliptic curves] **94b:11126**
Franke, Jens On the construction of elliptic cohomology. **94h:55007**
Frey, Gerhard Curves with infinitely many points of fixed degree. (English summary) **94m:11072**
Gergondey, Robert Decorated elliptic curves: modular aspects. (English summary) **94b:11035**
Goldfeld, Dorian (*with* Hoffstein, Jeffrey) On the number of Fourier coefficients that determine a modular form. **94b:11037**
Gouvêa, Fernando Q. "A marvelous proof". **94k:11033**
Hoffstein, Jeffrey *see* **Goldfeld, Dorian, 94b:11037**
Ishii, Noburo Defining equations of modular function fields. (English summary) **94k:11066**
Jackson, Allyn Update on proof of Fermat's last theorem. **94m:11039**
Kaljulaid, U. Mordell's problem. (Estonian. English and Russian summaries) **94d:11042**
Kolyvagin, V. A. On the structure of Shafarevich-Tate groups. **94b:11055**
Lario, Joan C. Serre's conjecture on Galois representations attached to Weil curves with additive reduction. (English summary) **94f:11034**
Lieman, Daniel B. The GL(3) Rankin-Selberg convolution for functions not of rapid decay. **94a:11070**
Lockhart, Paul (*with* Rosen, Michael; Silverman, Joseph H.) An upper bound for the conductor of an abelian variety. **94d:11039**
Mai, Liem The analytic rank of a family of elliptic curves. (English summary) **94d:11043**
Michel, Alexis Une formule de Riemann-Hurwitz pour le groupe de Selmer d'une courbe elliptique. (English and French summaries) [A Riemann-Hurwitz formula for the Selmer group of an elliptic curve] **94g:11097**
Müller, Helmut Primzahltests und elliptische Kurven: $10^{99} + 289$ ist prim. [Primality testing and elliptic curves: $10^{99} + 289$ is prime] **94j:11129**
Murty, Maruti Ram (*with* Murty, V. Kumar) Base change and the Birch-Swinnerton-Dyer conjecture. **94a:11095**
Murty, V. Kumar *see* **Murty, Maruti Ram, 94a:11095**
Park, Hwasin On the conjecture of Birch and Swinnerton-Dyer. **94h:11059**
Perrin-Riou, Bernadette *see* **Bernardi, Dominique, 94k:11071**
Ribet, Kenneth A. Modular elliptic curves and Fermat's last theorem. (English summary) **94h:11023**
Rohrlich, David E. Variation of the root number in families of elliptic curves. **94d:11045**
Rosen, Michael *see* **Lockhart, Paul; et al., 94d:11039**
Rubin, K. (*with* Silverberg, Alice) A report on Wiles' Cambridge lectures. (English summary) **94k:11062**
Shioda, Tetsuji Mordell-Weil lattice theory and its applications—a point of contact of algebra, geometry, and computers. (Japanese)
Silverberg, Alice *see* **Rubin, K., 94k:11062**
Silverman, Joseph H. *see* **Lockhart, Paul; et al., 94d:11039**
Top, Jaap Fermat's "primitive solutions" and some arithmetic of elliptic curves. (English summary) **94d:11014**
Trujillo S., Carlos Alberto Elliptic curves and algorithms in number theory: factorization. (Spanish. Spanish summary) **94m:11149**
Usui, Hisashi On Mordell-Weil lattices of type D_5. (English summary) **94j:14036**
Whitley, E. *see* **Cremona, J. E., 94c:11046**

11G07 Elliptic curves over local fields [see also 14G20, 14H52]

Andrïichuk, V. I. On the Tate-Shafarevich product on elliptic curves over pseudolocal fields with residue fields of characteristic 3. (Ukrainian. Russian and Ukrainian summaries) **94d:11037**
Connell, Ian Good reduction of elliptic curves in abelian extensions. **94a:11081**

Lorenzini, Dino J. On modular elliptic curves. (English summary) **94e:11066**
Nakamura, Tetsuo A note on elliptic curves with ordinary reduction. **94a:11082**
Papadopoulos, Ioannis Sur la classification de Néron des courbes elliptiques en caractéristique résiduelle 2 et 3. (French summary) [On Néron's classification of elliptic curves for characteristic 2 and 3 of the residue field] **94g:11038**

Items with secondary classifications in 11G07

Lockhart, Paul (*with* Rosen, Michael; Silverman, Joseph H.) An upper bound for the conductor of an abelian variety. **94d:11039**
Rosen, Michael *see* **Lockhart, Paul; et al., 94d:11039**
Silverman, Joseph H. *see* **Lockhart, Paul; et al., 94d:11039**

11G09 Drinfel'd modules; higher-dimensional motives, etc. [see also 14L05]

Anderson, Greg W. On Tate modules of formal t-modules. **94e:11067**
Carayol, Henri Variétés de Drinfel'd compactes, d'après Laumon, Rapoport et Stuhler. (French summary) [Compact Drinfel'd varieties, after Laumon, Rapoport and Stuhler] **94f:11050**
Damamme, G. Irrationalité de $\zeta(s)$ pour $s \leq q$ dans certains modules de Drinfel'd de rang 1. [Irrationality of $\zeta(s)$ for $s \leq q$ in certain Drinfel'd modules of rank 1] **94m:11069**
Denis, Laurent Hauteurs canoniques et modules de Drinfel'd. [Canonical heights and Drinfel'd modules] **94d:11038**
— Théorème de Baker et modules de Drinfel'd. (English summary) [Baker's theorem and Drinfel'd modules] **94b:11047**
Dummit, D. S. Genus two hyperelliptic Drinfel'd modules over $\mathbf{F}_2$. **94a:11083**
— (*with* Hayes, David R.) Rank-one Drinfel'd modules on elliptic curves. (English summary) **94g:11039**
Gekeler, Ernst-Ulrich Arithmetic of global function fields related to Drinfel'd modules. **94c:11049**
— (*with* Reversat, M.) Some results on the Jacobians of Drinfel'd modular curves. **94e:11068**
Goss, David L-series of Grössencharakters of type A_0 for function fields. (English summary) **94j:11053**
— L-series of t-motives and Drinfel'd modules. (English summary) **94b:11048**
— Drinfel'd modules: cohomology and special functions. (English summary) **94k:11063**
Hamahata, Yoshinori Tensor products of Drinfel'd modules and v-adic representations. (English summary) **94c:11050**
Hayes, David R. Hecke characters and Eisenstein reciprocity in function fields. **94a:11084**
— *see also* **Dummit, D. S., 94g:11039**
Hellegouarch, Yves (*with* Recher, François) Relèvement de modules de Drin'feld en caractéristique zero. (English summary) [Liftings of Drinfel'd modules in characteristic zero] **94h:11055**
Oukhaba, H. Groups of elliptic units in global function fields. **94a:11085**
Recher, François *see* **Hellegouarch, Yves, 94h:11055**
Reversat, M. *see* **Gekeler, Ernst-Ulrich, 94e:11068**
Taguchi, Yuichiro Ramifications arising from Drinfel'd modules. **94b:11049**
— Semi-simplicity of the Galois representations attached to Drinfel'd modules over fields of "infinite characteristics". **94k:11064**
Thakur, Dinesh S. On gamma functions for function fields. **94b:11050**
— Shtukas and Jacobi sums. (English summary) **94a:11086**

Items with secondary classifications in 11G09

Anderson, Greg W. A two-dimensional analogue of Stickelberger's theorem. **94a:11183**
Beilinson, A. A. (*with* Levin, A.) The elliptic polylogarithm. **94m:11067**
Berthé, Valérie De nouvelles preuves "automatiques" de transcendance pour la fonction zêta de Carlitz. (French summary) [Some new "automatic" proofs of transcendence for the Carlitz zeta function] **94d:11054**
— Fonction ζ de Carlitz et automates. (French summary) [The Carlitz ζ-function and automata] **94k:11082**
Blasius, Don (*with* Rogawski, Jonathan D.) Motives for Hilbert modular forms. **94i:11033**
Damamme, G. Transcendence properties of Carlitz zeta-values. (English summary) **94a:11109**
Deninger, Christopher Motivic L-functions and regularized determinants. **94m:11077**
Denis, Laurent Indépendance algébrique sur le module de Carlitz. (English and French summaries) [Algebraic independence on the Carlitz module] **94i:11048**
Feng, Ke Qin Zeta function, class number and cyclotomic units of cyclotomic function fields. (English summary) **94d:11091**
Fontaine, Jean-Marc Valeurs spéciales des fonctions L des motifs. (French summary) [Special values of L-functions of motives] **94f:11055**
Goncharov, A. B. Polylogarithms and motivic Galois groups. **94m:19003**
Goss, David Some integrals attached to modular forms in the theory of function fields. (English summary) **94c:11036**
Guo, Li[3] On a generalization of Tate dualities with application to Iwasawa theory. **94d:11085**
Kato, Kazuya Iwasawa theory and p-adic Hodge theory. **94f:11056**
Levin, A. *see* **Beilinson, A. A., 94m:11067**
van der Put, Marius Discrete groups, Mumford curves and theta functions. (English and French summaries) **94h:14021**
— Uniformization of varieties over local fields. **94a:11091**
Ramakrishnan, Dinakar Pure motives and automorphic forms. **94m:11134**
Rogawski, Jonathan D. *see* **Blasius, Don, 94i:11033**
Teitelbaum, Jeremy T. Modular representations of PGL_2 and automorphic forms for Shimura curves. **94h:11049**
Waldschmidt, Michel Transcendence problems connected with Drinfel'd modules. **94i:11047**

11G10 Abelian varieties of dimension >1 [see also 14Kxx]

Abramovich, Dan (*with* Voloch, José Felipe) Toward a proof of the Mordell-Lang conjecture in characteristic p. **94f:11051**
Grant, David Integer points on curves of genus two and their Jacobians. (English summary) **94j:11054**
Lockhart, Paul (*with* Rosen, Michael; Silverman, Joseph H.) An upper bound for the conductor of an abelian variety. **94d:11039**
Lorenzini, Dino J. On the group of components of a Néron model. **94k:11065**
Masser, David (*with* Wüstholz, Gisbert) Periods and minimal abelian subvarieties. **94g:11040**
Rosen, Michael *see* **Lockhart, Paul; et al., 94d:11039**
Shiga, Hironori On the transcendency of the values of the modular function at algebraic points. (English summary) **94e:11069**
Silverman, Joseph H. *see* **Lockhart, Paul; et al., 94d:11039**
Voloch, José Felipe *see* **Abramovich, Dan, 94f:11051**
Wüstholz, Gisbert *see* **Masser, David, 94g:11040**

Items with secondary classifications in 11G10

Bachmat, Eitan A Fourier transform construction for Arakelov-Chow groups of an arithmetic abelian scheme. **94k:14015**
Boxall, John Autour d'un problème de Coleman. (English and French summaries) [On a problem of Coleman] **94a:14046**
Lorenzini, Dino J. On modular elliptic curves. (English summary) **94e:11066**
Murabayashi, Naoki Mordell-Weil rank of the Jacobians of the curves defined by $y^p = f(x)$. **94k:11069**
Murty, V. Kumar ★ Introduction to abelian varieties. **94b:14045**
Wang, Weiben On the twist of abelian varieties defined by the Galois extension of prime degree. (English summary) **94m:11070**
Zarkhin, Yu. G. Abelian varieties of $K3$ type and l-adic representations. **94i:14047**

11G15 Complex multiplication and moduli of abelian varieties [see also 14K22]

Srivastav, Anupam (*with* Venkataraman, S.) On the Fueter model and monogeneity of rings of integers. (English summary) **94b:11051**
Venkataraman, S. *see* **Srivastav, Anupam, 94b:11051**
Wang, Weiben On the twist of abelian varieties defined by the Galois extension of prime degree. (English summary) **94m:11070**

Items with secondary classifications in 11G15

Cohen, Paula Beazley (*with* Wolfart, Jürgen) Fonctions hypergéométriques en plusieurs variables et espaces des modules de variétés abéliennes. (English summary) [Hypergeometric functions in several variables and moduli spaces of abelian varieties] **94j:14027**
Dummit, D. S. (*with* Hayes, David R.) Rank-one Drinfel'd modules on elliptic curves. (English summary) **94g:11039**
Hayes, David R. *see* **Dummit, D. S., 94g:11039**
Michel, Alexis Une formule de Riemann-Hurwitz pour le groupe de Selmer d'une courbe elliptique. (English and French summaries) [A Riemann-Hurwitz formula for the Selmer group of an elliptic curve] **94g:11097**
Reimann, Harry Das kanonische Modell eines Kugelquotienten. (German summary) [The canonical model of a quotient of a sphere] **94m:14028**
Shiga, Hironori On the transcendency of the values of the modular function at algebraic points. (English summary) **94e:11069**
Taylor, M. J. The Galois module structure of certain arithmetic principal homogeneous spaces. **94a:11178**
Wolfart, Jürgen *see* **Cohen, Paula Beazley, 94j:14027**

11G16 Elliptic and modular units [see also 11R27]

Schertz, Reinhard Problèmes de construction en multiplication complexe. [Problems of construction in complex multiplication] **94c:11051**
Takagi, Toshikazu The cuspidal class number formula for the modular curves $X_1(p^m)$. **94d:11040**

Items with secondary classifications in 11G16

Brinkmann, Christoph ★ Die Andersonextension und 1-Motive. (German) [The Anderson extension and 1-motive] **94a:11087**
Hajir, Farshid Elliptic units of cyclic unramified extensions of complex quadratic fields. **94h:11102**
Oukhaba, H. Groups of elliptic units in global function fields. **94a:11085**

11G18 Arithmetic aspects of modular and Shimura varieties [see also 14G35]

Brinkmann, Christoph ★ Die Andersonextension und 1-Motive. (German) [The Anderson extension and 1-motive] **94a:11087**
Ishii, Noburo Defining equations of modular function fields. (English summary) **94k:11066**
Krir, Mohamed Une extension de $\mathbf{Q}_p^{nr}$ sur laquelle $J_0(N)$ est semi-stable. (English and French summaries) [An extension of $\mathbf{Q}_p^{nr}$ on which $J_0(N)$ is semistable] **94f:11052**
Milne, James S. The points on a Shimura variety modulo a prime of good reduction. **94g:11041**
Nart, Enric The formal completion of the Néron model of $J_0(p)$. (English summary) **94f:11053**
Ribet, Kenneth A. Abelian varieties over $\mathbf{Q}$ and modular forms. **94g:11042**
Takahashi, Shuzo The fundamental domain of the tree of GL(2) over the function field of an elliptic curve. **94k:11067**

Items with secondary classifications in 11G18

Cohen, Paula Beazley (*with* Wolfart, Jürgen) Fonctions hypergéométriques en plusieurs variables et espaces des modules de variétés abéliennes. (English summary) [Hypergeometric functions in several variables and moduli spaces of abelian varieties] **94j:14027**
Darmon, Henri The equations $x^n + y^n = z^2$ and $x^n + y^n = z^3$. **94i:11023**

Gekeler, Ernst-Ulrich Arithmetic of global function fields related to Drinfel'd modules. **94c:11049**
Gouvêa, Fernando Q. "A marvelous proof". **94k:11033**
Lee, Min Ho Conjugates of (H_2)-equivariant maps of symmetric domains. **94e:14029**
Leprévost, Franck Courbes modulaires et 11-rang de corps quadratiques. (English and French summaries) [Modular curves and 11-rank of quadratic fields] **94m:11073**
Ling, San The old subvariety of $J_0(pq)$ and the Eisenstein kernel in Jacobians. (English summary) **94h:11047**
— Congruences between cusp forms and the geometry of Jacobians of modular curves. **94a:11063**
Lorenzini, Dino J. On modular elliptic curves. (English summary) **94e:11066**
Merel, Loïc Intersections sur des courbes modulaires. [Intersections on modular curves] **94k:14014**
Reimann, Harry Das kanonische Modell eines Kugelquotienten. (German summary) [The canonical model of a quotient of a sphere] **94m:14028**
Silverberg, Alice Canonical models and adelic representations. **94a:14023**
Takagi, Toshikazu The cuspidal class number formula for the modular curves $X_1(p^m)$. **94d:11040**
Teitelbaum, Jeremy T. Modular representations of PGL_2 and automorphic forms for Shimura curves. **94h:11049**
Wolfart, Jürgen *see* **Cohen, Paula Beazley, 94j:14027**

11G20 Curves over finite and local fields [see also 14H25]

Brouillard, Christophe Action du groupe de Galois sur les périodes de certaines courbes de Mumford. (English and French summaries) [Galois action on periods of some Mumford curves] **94a:11088**
Frey, Gerhard (*with* Rück, Hans-Georg) A remark concerning m-divisibility and the discrete logarithm in the divisor class group of curves. (English summary) **94h:11056**
van der Geer, Gerard (*with* van der Vlugt, Marcel) Supersingular curves of genus 2 over finite fields of characteristic 2. **94g:11043**
— (*with* van der Vlugt, Marcel) Curves over finite fields of characteristic 2 with many rational points. (English and French summaries) **94k:11068**
Howe, Everett W. On the group orders of elliptic curves over finite fields. (English summary) **94a:11089**
Morain, François Building cyclic elliptic curves modulo large primes. (English summary) (*see* **94b:94003**)
Munuera Gómez, Carlos (*with* Tena Ayuso, Juan Gabriel) An algorithm to compute the number of points on elliptic curves of j-invariant 0 or 1728 over a finite field. (English summary) **94i:11038**
Rück, Hans-Georg *see* **Frey, Gerhard, 94h:11056**
Tena Ayuso, Juan Gabriel *see* **Munuera Gómez, Carlos, 94i:11038**
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Anderson, Greg W. A two-dimensional analogue of Stickelberger's theorem. **94a:11183**
Chinburg, Ted (*with* Rumely, Robert) The capacity pairing. **94b:14019**
Hansen, Johan P. (*with* Pedersen, Jens Peter) Automorphism groups of Ree type, Deligne-Lusztig curves and function fields. **94h:14024**
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Keedwell, A. D. More simple constructions for elliptic cubic curves with small numbers of points. (English summary) **94j:51012**
Pedersen, Jens Peter *see* **Hansen, Johan P., 94h:14024**
van der Put, Marius Uniformization of varieties over local fields. **94a:11091**
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Wolfmann, Jacques Algebraic curves and varieties over finite fields and irreducible cyclic codes. (English summary) **94b:94025**
Zhang, Shouwu Admissible pairing on a curve. **94h:14023**

11G25 Varieties over finite and local fields [see also 14G15, 14G20]

Bosch, Siegfried (*with* Lütkebohmert, Werner) Formal and rigid geometry. I. Rigid spaces. **94a:11090**
— (*with* Lütkebohmert, Werner) Formal and rigid geometry. II. Flattening techniques. **94e:11070**
Lütkebohmert, Werner *see* **Bosch, Siegfried, 94a:11090** *and* **94e:11070**
van der Put, Marius Uniformization of varieties over local fields. **94a:11091**
Wolfmann, Jacques The number of solutions of certain diagonal equations over finite fields. (English summary) **94j:11055**

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Koblitz, Neal CM-curves with good cryptographic properties. (English summary) **94e:11134**
Le Stum, Bernard *see* **Étesse, Jean-Yves, 94i:14030**
Saito, Takeshi ε-factor of a tamely ramified sheaf on a variety. **94m:14025**
Shokrollahi, Mohammad Amin Minimum distance of elliptic codes. **94a:11193**
Wolfmann, Jacques Algebraic curves and varieties over finite fields and irreducible cyclic codes. (English summary) **94b:94025**

11G30 Curves of arbitrary genus or genus $\neq 1$ over global fields [see also 14H25]

Cantor, David G. On the analogue of the division polynomials for hyperelliptic curves. **94m:11071**
Frey, Gerhard Curves with infinitely many points of fixed degree. (English summary) **94m:11072**
Hindry, Marc Sur les conjectures de Mordell et Lang (d'après Vojta, Faltings et Bombieri). (English summary) [On the conjectures of Mordell and Lang (after Vojta, Faltings and Bombieri)] **94b:11052**
Lang, Serge Die *abc*-Vermutung. (German summary) [The *abc* conjecture] **94g:11044**
Leprévost, Franck Points rationnels de torsion de jacobiennes de certaines courbes de genre 2. (English and French summaries) [Rational torsion points of some Jacobians of curves of genus 2] **94h:11057**
— Courbes modulaires et 11-rang de corps quadratiques. (English and French summaries) [Modular curves and 11-rank of quadratic fields] **94m:11073**
Lockhart, Paul On the discriminant of a hyperelliptic curve. (English summary) **94f:11054**
Moriwaki, Atsushi Height inequality of nonisotrivial curves over function fields. (English summary) **94m:11074**
Murabayashi, Naoki Mordell-Weil rank of the Jacobians of the curves defined by $y^p = f(x)$. **94k:11069**
Ohta, Masami On cohomology groups attached to towers of algebraic curves. **94c:11052**
Poulakis, Dimitrios Points entiers sur les courbes hyperelliptiques. [Integer points on hyperelliptic curves] **94b:11053**
— Points entiers sur les courbes de genre 0. [Integer points on curves of genus 0] **94m:11075**
Silverman, Joseph H. A uniform bound for rational points on twists of a given curve. **94a:11092**
Stepanov, S. A. ★ Арифметика алгебраических кривых. (Russian. English and Russian summaries) [Arithmetic of algebraic curves] **94i:11039**
Vojta, Paul A generalization of theorems of Faltings and Thue-Siegel-Roth-Wirsing. **94a:11093**

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Chinburg, Ted (*with* Rumely, Robert) The capacity pairing. **94b:14019**
Debarre, Olivier (*with* Fahlaoui, Rachid) Abelian varieties in $W_d^r(C)$ and points of bounded degree on algebraic curves. **94h:14028**
Fahlaoui, Rachid *see* **Debarre, Olivier, 94h:14028**
Grant, David Integer points on curves of genus two and their Jacobians. (English summary) **94j:11054**
Ribet, Kenneth A. Modular elliptic curves and Fermat's last theorem. (English summary) **94h:11023**
Ruelle, Ph. (*with* Thiran, E.; Weyers, J.) Implications of an arithmetical symmetry of the commutant for modular invariants. (English summary) **94k:81288**
Rumely, Robert *see* **Chinburg, Ted, 94b:14019**
Soulé, Christophe Un théorème d'annulation sur les surfaces arithmétiques. (English and French summaries) [A vanishing theorem for arithmetic surfaces] **94d:14026**
Thiran, E. *see* **Ruelle, Ph.; et al., 94k:81288**
Voloch, José Felipe Siegel's theorem for complex function fields. (English summary) **94j:11052**
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Zhang, Shouwu Admissible pairing on a curve. **94h:14023**

11G35 Varieties over global fields [see also 14G25]

Baragar, Arthur The Hurwitz equations. **94e:11071**
Brown, Martin Lawrence The density of rational and integral points on algebraic varieties. **94d:11041**
Colliot-Thélène, Jean-Louis L'arithmétique des variétés rationnelles. (English and French summaries) [The arithmetic of rational varieties] **94i:11040**
Harari, David Groupe de Brauer de certaines hypersurfaces. (French summary) [Brauer group of certain hypersurfaces] **94a:11094**
Manin, Yu. I. Notes on the arithmetic of Fano threefolds. **94c:11053**
— (*with* Tschinkel, Yu.) Points of bounded height on del Pezzo surfaces. **94k:11070**
Ruppert, Wolfgang M. Solving algebraic equations in roots of unity. **94c:11054**
Schmidt, Wolfgang M. Northcott's theorem on heights. I. A general estimate. (English summary) **94b:11054**
Shioda, Tetsuji Mordell-Weil lattice theory and its applications—a point of contact of algebra, geometry, and computers. (Japanese)
Thunder, Jeffrey Lin Asymptotic estimates for rational points of bounded height on flag varieties. **94h:11058**
Tschinkel, Yu. *see* **Manin, Yu. I., 94k:11070**
Weng, Lin From subvarieties of abelian varieties to Kobayashi hyperbolic manifolds: after P. Vojta and G. Faltings. **94m:11076**

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(Burnol, J.-F.) *see* **Soulé, Christophe, 94e:14031**
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Faltings, Gerd Recent progress in Diophantine geometry. (English summary) (*see* **94j:00018**)
Hindry, Marc Sur les conjectures de Mordell et Lang (d'après Vojta, Faltings et Bombieri). (English summary) [On the conjectures of Mordell and Lang (after Vojta, Faltings and Bombieri)] **94b:11052**
(Kramer, Jürg) *see* **Soulé, Christophe, 94e:14031**
Maehara, Kazuhisa Diophantine problem of algebraic varieties and Hodge theory. **94j:14026**
Peters, Chris A. M. (*with* Top, Jaap; van der Vlugt, Marcel) The Hasse zeta function of a $K3$ surface related to the number of words of weight 5 in the Melas codes. **94d:11044**
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11G40 L-functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture [see also 14G10]

Bernardi, Dominique (*with* Perrin-Riou, Bernadette) Variante p-adique de la conjecture de Birch et Swinnerton-Dyer (le cas supersingulier). (English and French summaries) [A p-adic version of the Birch and Swinnerton-Dyer conjecture (the supersingular case)] **94k:11071**

Cremona, J. E. The analytic order of Ш for modular elliptic curves. (English summary) **94i:11041**

Deninger, Christopher Motivic L-functions and regularized determinants. **94m:11077**

Fontaine, Jean-Marc Valeurs spéciales des fonctions L des motifs. (French summary) [Special values of L-functions of motives] **94f:11055**

Kaljulaid, U. Mordell's problem. (Estonian. English and Russian summaries) **94d:11042**

Kato, Kazuya Iwasawa theory and p-adic Hodge theory. **94f:11056**

Kodama, Tetsuo *see* **Washio, Tadashi, 94f:11057**

Kolyvagin, V. A. On the structure of Shafarevich-Tate groups. **94b:11055**

Mai, Liem The analytic rank of a family of elliptic curves. (English summary) **94d:11043**

Murty, Maruti Ram (*with* Murty, V. Kumar) Base change and the Birch-Swinnerton-Dyer conjecture. **94a:11095**

Murty, V. Kumar *see* **Murty, Maruti Ram, 94a:11095**

Nizioł, Wiesława Cohomology of crystalline representations. **94g:11045**

Park, Hwasin On the conjecture of Birch and Swinnerton-Dyer. **94h:11059**

Perrin-Riou, Bernadette *see* **Bernardi, Dominique, 94k:11071**

Peters, Chris A. M. (*with* Top, Jaap; van der Vlugt, Marcel) The Hasse zeta function of a $K3$ surface related to the number of words of weight 5 in the Melas codes. **94d:11044**

Rohrlich, David E. Variation of the root number in families of elliptic curves. **94d:11045**

Scholl, A. J. Modular forms and algebraic K-theory. (English summary) **94a:11096**

Shioda, Tetsuji Some remarks on elliptic curves over function fields. (English summary) **94d:11046**

Top, Jaap *see* **Peters, Chris A. M.; et al., 94d:11044**

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Washio, Tadashi (*with* Kodama, Tetsuo) Note on explicit formulas of L-functions of some hyperelliptic curves. (English summary) **94f:11057**

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Beilinson, A. A. (*with* Levin, A.) The elliptic polylogarithm. **94m:11067**

Brown, Martin Lawrence The density of rational and integral points on algebraic varieties. **94d:11041**

Bungert, Michael Construction of a cuspform of weight 3/2. **94f:11035**

Cohen, Henri Elliptic curves. **94e:11063**

Cremona, J. E. (*with* Whitley, E.) Periods of cusp forms and elliptic curves over imaginary quadratic fields. (English summary) **94c:11046**

Fermigier, Stéfane Zéros des fonctions L de courbes elliptiques. (English and French summaries) [Zeros of L-functions of elliptic curves] **94b:11126**

Goss, David L-series of t-motives and Drinfel'd modules. (English summary) **94b:11048**

Koblitz, Neal ★ Introduction to elliptic curves and modular forms. (English summary) **94a:11078**

Kurihara, Masato Ideal class groups of cyclotomic fields and modular forms of level 1. (English summary) **94j:11115**

Levin, A. *see* **Beilinson, A. A., 94m:11067**

Lieman, Daniel B. The GL(3) Rankin-Selberg convolution for functions not of rapid decay. **94a:11070**

(Mazur, Barry C.) *see* **p-adic monodromy and the Birch and Swinnerton-Dyer conjecture, 94m:11006**

Noda, Kazunari (*with* Wada, Hideo) All congruent numbers less than 10000. **94c:11064**

Schmidt, Claus-G. Relative modular symbols and p-adic Rankin-Selberg convolutions. **94g:11034**

(Stevens, Glenn) *see* **p-adic monodromy and the Birch and Swinnerton-Dyer conjecture, 94m:11006**

Top, Jaap Fermat's "primitive solutions" and some arithmetic of elliptic curves. (English summary) **94d:11014**

Wada, Hideo *see* **Noda, Kazunari, 94e:11064**

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***p*-adic monodromy and the Birch and Swinnerton-Dyer conjecture** ★ p-adic monodromy and the Birch and Swinnerton-Dyer conjecture. **94m:11006**

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11G45 Geometric class field theory [see also 11R37, 14C35, 19F05]

Items with secondary classifications in 11G45

Kahn, Bruno Nullité de certains groupes attachés aux variétés semi-abéliennes sur un corps fini; application. (English summary) [Vanishing of certain groups attached to semi-abelian varieties over a finite field: an application] **94b:19006**

Koya, Yoshihiro Hasse's norm theorem for K_2. **94b:19007**

11G99 None of the above, but in this section

Duke, W. (*with* Rudnick, Z.; Sarnak, Peter) Density of integer points on affine homogeneous varieties. **94k:11072**

Hindry, Marc Géométrie arithmétique. [Arithmetic geometry] **94k:11073**

Rudnick, Z. *see* **Duke, W.; et al., 94k:11072**

Sarnak, Peter *see* **Duke, W.; et al., 94k:11072**

Items with secondary classifications in 11G99

Hain, Richard M. Classical polylogarithms. (English summary) **94k:19002**

Hanamura, Masaki (*with* MacPherson, Robert) Geometric construction of polylogarithms. **94h:19005**

MacPherson, Robert *see* **Hanamura, Masaki, 94h:19005**

Yanchevskiĭ, V. I. K-unirationality of conic bundles over large arithmetic fields. (English summary) **94m:14027**

11Hxx Geometry of numbers {For applications in coding theory, see 94B75.}

Gruber, Peter M. Geometry of numbers. **94k:11074**

Senechal, Marjorie Introduction to lattice geometry. **94f:11058**

11H06 Lattices and convex bodies [see also 11P21, 52C05, 52C07]

Burger, Edward B. On Mahler's compound bodies. (English summary) **94m:11078**

Delmer, Francine (*with* Deshouillers, Jean-Marc) Une note sur les points entiers dans un corps convexe. (English summary) [A note on integral points in a convex region] **94e:11072**

Deshouillers, Jean-Marc *see* **Delmer, Francine, 94e:11072**

Fainleĭb, A. S. *see* **Tulyaganova, M. I., 94j:11058**

Katznelson, Yonatan R. Integral matrices of fixed rank. **94e:11073**

Ruzimuradov, Kh. Kh. Fundamental rectangles of admissible lattices. (Russian. Russian summary) **94e:11074**

Scarf, Herbert E. (*with* Shallcross, David F.) The Frobenius problem and maximal lattice free bodies. (English summary) **94j:11056**

Scharlau, Rudolf (*with* Walhorn, Claudia) Integral lattices and hyperbolic reflection groups. (English summary) **94j:11057**

Shallcross, David F. *see* **Scarf, Herbert E., 94j:11056**

Tulyaganova, M. I. (*with* Fainleĭb, A. S.) Distribution of prime vectors in integer lattices of general form. (Russian. English and Uzbek summaries) **94j:11058**

Walhorn, Claudia *see* **Scharlau, Rudolf, 94j:11057**

Items with secondary classifications in 11H06

Aulakh, C. S. Integer lattices and RCFT. (English summary) (*see* **94d:81006**)

Banaszczyk, Wojciech New bounds in some transference theorems in the geometry of numbers. **94k:11075**

Betke, Ulrich (*with* Henk, Martin) Intrinsic volumes and lattice points of crosspolytopes. (English summary) **94g:52010**

Branton, Monique (*with* Sargos, Patrick) Points entiers au voisinage d'une courbe plane à très faible courbure. [Integral points near a plane curve with very weak curvature] **94m:11120**

Burger, Edward B. (*with* Vaaler, Jeffrey D.) On the decomposition of vectors over number fields. **94c:11058**

Dumir, V. C. (*with* Hans-Gill, R. J.; Wilker, J. B.) Contributions to a general theory of view-obstruction problems. (English summary) **94d:52022**

— (*with* Hans-Gill, R. J.; Wilker, J. B.) The view-obstruction constants for l_p-balls in $\mathbf{R}^3$. (English summary) **94j:52033**

Gritzmann, Peter (*with* Wills, Jörg M.) Lattice points. **94k:52026**

Hans-Gill, R. J. *see* **Dumir, V. C.; et al., 94d:52022** *and* **94j:52033**

Henk, Martin *see* **Betke, Ulrich, 94g:52010**

Iguchi, Kazumoto Trace maps for quarternary quasiperiodic lattices. (English summary) **94c:82089**

Kubota, Tomio The foundation of class field theory based on the principles of space diagrams. (Japanese) **94k:11123**

Liu, Ji Yong (*with* Trotter, Leslie E., Jr.; Ziegler, Günter M.) On the height of the minimal Hilbert basis. (English summary) **94f:52029**

Pervin, Edward The Voronoi cells of the E_6^* and E_7^* lattices. (English summary) **94h:52033**

Pommersheim, James E. Toric varieties, lattice points and Dedekind sums. **94c:14043**

Quebbemann, H.-G. Unimodular lattices with isometries of large prime order. II. **94k:11077**

Rabinowitz, Stanley $O(n^3)$ bounds for the area of a convex lattice n-gon. **94b:52028**

Sargos, Patrick *see* **Branton, Monique, 94m:11120**

Scarf, Herbert E. (*with* Shallcross, David F.) Shortest integer vectors. (English summary) **94j:11059**

Schnell, Uwe Lattice inequalities for convex bodies and arbitrary lattices. (English summary) **94m:52022**

Seysen, M. Simultaneous reduction of a lattice basis and its reciprocal basis. (English summary) **94h:11061**

Shallcross, David F. *see* **Scarf, Herbert E., 94j:11059**

Shioda, Tetsuji Mordell-Weil lattice theory and its applications—a point of contact of algebra, geometry, and computers. (Japanese)

Skriganov, M. M. On integer points in polygons. (English and French summaries) **94d:11077**

Thunder, Jeffrey Lin The number of solutions of bounded height to a system of linear equations. (English summary) **94a:11045**

Trotter, Leslie E., Jr. *see* **Liu, Ji Yong; et al., 94f:52029**

Tsuchihashi, Hiroyasu On the volumes of integral convex polytopes satisfying certain conditions. **94k:52027**

Vaaler, Jeffrey D. *see* **Burger, Edward B., 94c:11058**

Wilker, J. B. *see* **Dumir, V. C.; et al., 94d:52022** *and* **94j:52033**

Wills, Jörg M. *see* **Gritzmann, Peter, 94k:52026**

Xu, Yijing (*with* Yau, Stephen S.-T.) Durfee conjecture and coordinate free characterization of homogeneous singularities. **94f:32073**

Yau, Stephen S.-T. *see* **Xu, Yijing, 94f:32073**
Ziegler, Günter M. *see* **Liu, Ji Yong; et al., 94f:52029**

11H16 Nonconvex bodies

Uhrin, B. A description of the segment $[1, T]$, where T is the meeting number of a set-lattice. **94g:11046**

Items with secondary classifications in 11H16

Everest, G. R. Corrigenda to: "Uniform distribution and lattice point counting" [J. Austral. Math. Soc. Ser. A **53** (1992), no. 1, 39–50; MR 93i:11114]. **Il'in, I. V.** Chebotarev estimates in the inhomogeneous Minkowski conjecture for small dimensions. (Russian. Russian summary) **94g:11047**

11H31 Lattice packing and covering [see also 05B40, 52C15, 52C17]

Banaszczyk, Wojciech New bounds in some transference theorems in the geometry of numbers. **94k:11075**
Fejes Tóth, Gábor (*with* Kuperberg, Włodzimierz) Blichfeldt's density bound revisited. **94c:11055**
Hosoya, Haruo *see* **Narumi, Hideyuki, 94a:11097**
Kuperberg, Włodzimierz *see* **Fejes Tóth, Gábor, 94c:11055**
Mosseri, Rémy *see* **Sadoc, J.-F., 94e:11075**
Narumi, Hideyuki (*with* Hosoya, Haruo) Generalized expression of the perfect matching number for $2 \times 3 \times n$ lattices. (English summary) **94a:11097**
Rush, J. A. A bound, and a conjecture, on the maximum lattice-packing density of a superball. (English summary) **94h:11060**
Sadoc, J.-F. (*with* Mosseri, Rémy) The E_8 lattice and quasicrystals: geometry, number theory and quasicrystals. (English summary) **94e:11075**

Items with secondary classifications in 11H31

Baranovskiĭ, E. P. (*with* Vlasov, E. V.; Novikova, N. V.) Primary elements of L-partitions of two-, three- and four-dimensional lattices. (Russian. Russian summary) **94f:52028**
Hausel, T. Transillumination of lattice packing of balls. **94h:52032**
Lyness, J. N. The canonical forms of a lattice rule. (English summary) **94j:65035**
Novikova, N. V. *see* **Baranovskiĭ, E. P.; et al., 94f:52028**
Senechal, Marjorie Introduction to lattice geometry. **94f:11058**
Vlasov, E. V. *see* **Baranovskiĭ, E. P.; et al., 94f:52028**

11H46 Products of linear forms

Skubenko, B. F. On a question of A. Woods and P. Bambah concerning codes of decomposable cubic forms. (Russian. Russian summary) **94d:11047**

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Il'in, I. V. Chebotarev estimates in the inhomogeneous Minkowski conjecture for small dimensions. (Russian. Russian summary) **94g:11047**

11H50 Minima of forms

Il'in, I. V. Chebotarev estimates in the inhomogeneous Minkowski conjecture for small dimensions. (Russian. Russian summary) **94g:11047**
Raka, Madhu Inhomogeneous minima of a class of ternary quadratic forms. (English summary) **94i:11042**
Scarf, Herbert E. (*with* Shallcross, David F.) Shortest integer vectors. (English summary) **94j:11059**
Shallcross, David F. *see* **Scarf, Herbert E., 94j:11059**

Items with secondary classifications in 11H50

Bachoc, Christine (*with* Batut, Christian) Étude algorithmique de réseaux construits avec la forme trace. (English and French summaries) [Algorithmic study of lattices constructed using the trace form] **94c:11056**
Banaszczyk, Wojciech New bounds in some transference theorems in the geometry of numbers. **94k:11075**
Batut, Christian *see* **Bachoc, Christine, 94c:11056**
Erdahl, R. M. The theorem of Korkine and Zolotarev on the first perfect form. (English summary) **94m:11080**
Evertse, Jan-Hendrik Estimates for reduced binary forms. **94h:11037**
Haas, Andrew Howard Geometric Markoff theory and a theorem of Millington. **94g:11048**
Krieg, Aloys Primitive minima of positive definite quadratic forms. **94a:11098**

11H55 Quadratic forms (reduction theory, extreme forms, etc.)

Bachoc, Christine (*with* Batut, Christian) Étude algorithmique de réseaux construits avec la forme trace. (English and French summaries) [Algorithmic study of lattices constructed using the trace form] **94c:11056**
Batut, Christian *see* **Bachoc, Christine, 94c:11056**
Bergé, A.-M. (*with* Martinet, Jacques; Sigrist, François) Une généralisation de l'algorithme de Voronoĭ pour les formes quadratiques. (French summary) [A generalization of the Voronoĭ algorithm for quadratic forms] **94c:11057**
Burger, Edward B. (*with* Vaaler, Jeffrey D.) On the decomposition of vectors over number fields. **94c:11058**
Daudé, Hervé (*with* Vallée, Brigitte) An upper bound on the average number of iterations of the LLL algorithm. (English summary) **94m:11079**
Erdahl, R. M. The theorem of Korkine and Zolotarev on the first perfect form. (English summary) **94m:11080**
Jaquet-Chiffelle, David-Olivier Énumération complète des classes de formes parfaites en dimension 7. (English and French summaries) [Complete enumeration of classes of perfect forms in dimension 7] **94d:11048**
Koch, Helmut V. (*with* Nebe, Gabriele) Extremal even unimodular lattices of rank 32 and related codes. **94k:11076**
Krieg, Aloys Primitive minima of positive definite quadratic forms. **94a:11098**
Lachaud, Gilles Polyèdre d'Arnol'd et voile d'un cône simplicial: analogues du théorème de Lagrange. (English and French summaries) [The Arnol'd polyhedron and the sail of a simplicial cone: analogues of the Lagrange theorem] **94m:11081**
Martinet, Jacques *see* **Bergé, A.-M.; et al., 94c:11057**
Nebe, Gabriele *see* **Koch, Helmut V., 94k:11076**
Seysen, M. Simultaneous reduction of a lattice basis and its reciprocal basis. (English summary) **94h:11061**
Sigrist, François *see* **Bergé, A.-M.; et al., 94c:11057**
Vaaler, Jeffrey D. *see* **Burger, Edward B., 94c:11058**
Vallée, Brigitte *see* **Daudé, Hervé, 94m:11079**
Zel'dich, M. V. Sincere weakly positive unit quadratic forms [MR 94h:16022]. (English summary) (*see* **94j:16002**)

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Ito, Shunji (*with* Tachii, Hiroko) A Diophantine algorithm and a reduction theory of ternary forms. **94k:11080**
Jaquet-Chiffelle, David-Olivier Description des voisines de E_7, D_7, D_8 et D_9. (English and French summaries) [Description of the neighbors of E_7, D_7, D_8 and D_9] **94e:11035**
Senechal, Marjorie Introduction to lattice geometry. **94f:11058**
Tachii, Hiroko *see* **Ito, Shunji, 94k:11080**
Zhuravlev, V. G. Generalized Eichler-Brandt matrices, Hecke operators, and vector-valued theta series. (Russian. Russian summary) **94k:11047**

11H56 Automorphism groups of lattices

Quebbemann, H.-G. Unimodular lattices with isometries of large prime order. II. **94k:11077**

Items with secondary classifications in 11H56

Phạm Hữu Tiệp Basic spinor representations of alternating groups, Gow lattices and Barnes-Wall lattices. (Russian. Russian summary) **94c:20025**

11H99 None of the above, but in this section

Items with secondary classifications in 11H99

Protasov, I. V. Cyclic measurement and lattices. (Russian) **94a:52036**

11Jxx Diophantine approximation, transcendental number theory [see also 11K60]

Schmidt, Wolfgang M. ★ Diophantine approximations and Diophantine equations. **94f:11059**

11J04 Homogeneous approximation to one number

Bennett, Michael A. Fractional parts of powers of rational numbers. (English summary) **94h:11062**
Douthett, Jack (*with* Entringer, Roger; Mullhaupt, Andrew) Musical scale construction: the continued fraction compromise. (English summary) **94a:11099**
Entringer, Roger *see* **Douthett, Jack; et al., 94a:11099**
Mullhaupt, Andrew *see* **Douthett, Jack; et al., 94a:11099**
Okano, Takeshi A note on the rational approximations to $\tanh(1/k)$. **94e:11076**
Stakėnas, V. Approximation of irrationals by m/n, satisfying $f(m/n) = a$. (English summary) (*see* **93g:11005**)
Tong, Jing Cheng Approximation by nearest integer continued fractions. (English summary) **94c:11059**
Xu, Zhao Yu Optimal approximation of square roots. (Chinese. English summary) **94f:11060**

Items with secondary classifications in 11J04

Burger, Edward B. Badly approximable systems and inhomogeneous approximation over number fields. **94m:11082**
Corvaja, Pietro Le théorème de Roth par un déterminant d'interpolation. (English and French summaries) [Roth's theorem via an interpolation determinant] **94b:11060**
Tong, Jing Cheng Approximation by nearest integer continued fractions. (English summary) **94c:11059**

11J06 Markov and Lagrange spectra and generalizations

Bumby, Richard T. Computing endpoints in Markoff spectra. **94b:11056**
Cohn, Harvey Markoff geodesics in matrix theory. **94d:11049**
Crisp, David J. (*with* Moran, William) Single self-intersection geodesics and the Markoff spectrum. **94b:11057**
Cusick, T. W. (*with* Moran, William; Pollington, Andrew D.) An inhomogeneous Hall's ray. **94d:11050**
Haas, Andrew Howard Geometric Markoff theory and a theorem of Millington. **94g:11048**
Moran, William *see* **Crisp, David J., 94b:11057** *and* **Cusick, T. W.; et al., 94d:11050**
Pollington, Andrew D. *see* **Cusick, T. W.; et al., 94d:11050**

Items with secondary classifications in 11J06

Cusick, T. W. On Perrine's generalized Markoff equations. (English summary) **94d:11013**
Sheingorn, Mark Low height Hecke triangle group geodesics. **94a:11055**

11J13 Simultaneous homogeneous approximation, linear forms

Chen, Yong Gao On a conjecture in Diophantine approximations. IV. (English summary) **94a:11100**
Matveev, E. M. Linear and multiplicative relations. (Russian. Russian summary) **94j:11060**
Rieger, G. J. Effective simultaneous approximation of complex numbers by conjugate algebraic integers. **94f:11061**
Schmidt, Wolfgang M. Vojta's refinement of the subspace theorem. **94b:11058**
Xu, Guang Shan Simultaneous approximation of certain numbers. (Chinese. Chinese summary) **94c:11060**

Items with secondary classifications in 11J13

Burger, Edward B. On Mahler's compound bodies. (English summary) **94m:11078**
Dickinson, H. The Hausdorff dimension of systems of simultaneously small linear forms. **94m:11093**
Dumir, V. C. (*with* Hans-Gill, R. J.; Wilker, J. B.) The view-obstruction constants for l_p-balls in R^3. (English summary) **94j:52033**
Hans-Gill, R. J. *see* **Dumir, V. C.; et al., 94j:52033**
Ivankov, P. L. Arithmetic properties of values of hypergeometric functions with different parameters. (Russian. Russian summary) **94a:11103**
Wilker, J. B. *see* **Dumir, V. C.; et al., 94j:52033**

11J17 Approximation by numbers from a fixed field

Items with secondary classifications in 11J17

Boyd, David W. Best approximation of real numbers by Pisot numbers. **94d:11083**
Xu, Guang Shan Simultaneous approximation of certain numbers. (Chinese. Chinese summary) **94c:11060**

11J20 Inhomogeneous linear forms

Items with secondary classifications in 11J20

Ivankov, P. L. Arithmetic properties of values of hypergeometric functions with different parameters. (Russian. Russian summary) **94a:11103**

11J25 Diophantine inequalities [see also 11D75]

Harman, Glyn Small fractional parts of additive forms. (English summary) **94j:11061**
ten Have, Gabriëlle Nicoline ★ Diophantine analysis of matrices. (Dutch summary) **94j:11062**

Items with secondary classifications in 11J25

Chen, Yong Gao On a conjecture in Diophantine approximations. IV. (English summary) **94a:11100**
Denis, Laurent Hauteurs canoniques et modules de Drinfel'd. [Canonical heights and Drinfel'd modules] **94d:11038**
Dumir, V. C. (*with* Hans-Gill, R. J.; Wilker, J. B.) Contributions to a general theory of view-obstruction problems. (English summary) **94d:52022**
Hans-Gill, R. J. *see* **Dumir, V. C.; et al., 94d:52022**
Matveev, E. M. Linear and multiplicative relations. (Russian. Russian summary) **94j:11060**
Scarf, Herbert E. (*with* Shallcross, David F.) The Frobenius problem and maximal lattice free bodies. (English summary) **94j:11056**
Shallcross, David F. *see* **Scarf, Herbert E., 94j:11056**
Vojta, Paul A generalization of theorems of Faltings and Thue-Siegel-Roth-Wirsing. **94a:11093**
Wilker, J. B. *see* **Dumir, V. C.; et al., 94d:52022**

11J61 Approximation in non-Archimedean valuations

Duverney, Daniel Une propriété arithmétique du nombre p-adique $\sum_{n=0}^{+\infty} a(n)p^{mn^2}$. (English and French summaries) [An arithmetic property of the p-adic number $\sum_{n=0}^{+\infty} a(n)p^{mn^2}$] **94g:11049**
Möller, Ralf Algebraische Unabhängigkeit der Werte gewisser Lückenreihen in nicht-archimedisch bewerteten Körpern. (English summary) [Algebraic independence of the values of certain gap series in non-Archimedean valued fields] **94j:11063**
Yuan, Jin Some properties of simultaneous approximate solutions. (Chinese. English and Chinese summaries) **94e:11077**
— Transcendental continued fractions of p-adic numbers. (Chinese. English and Chinese summaries) **94k:11078**

Items with secondary classifications in 11J61

Burger, Edward B. On Mahler's compound bodies. (English summary) **94m:11078**
Larcher, Gerhard (*with* Niederreiter, Harald) Kronecker-type sequences and non-Archimedean Diophantine approximations. **94c:11063**
Matala-Aho, Tapani On Diophantine approximations of the Rogers-Ramanujan continued fraction. (English summary) **94j:11067**
Niederreiter, Harald *see* **Larcher, Gerhard, 94c:11063**
Schlickewei, Hans Peter Multiplicities of algebraic linear recurrences. **94i:11015**
Schmidt, Wolfgang M. Vojta's refinement of the subspace theorem. **94b:11058**

11J68 Approximation to algebraic numbers

Burger, Edward B. Badly approximable systems and inhomogeneous approximation over number fields. **94m:11082**
Caveny, Deanna M. (*with* Tubbs, Robert) The arithmetic of well-approximated numbers. **94b:11059**
Corvaja, Pietro Le théorème de Roth par un déterminant d'interpolation. (English and French summaries) [Roth's theorem via an interpolation determinant] **94b:11060**
Jones, James P. (*with* Kiss, Péter) Some Diophantine approximation results concerning linear recurrences. (English summary) **94b:11061**
Kiss, Péter *see* **Jones, James P., 94b:11061**
Moshchevitin, N. G. Approximations of cubic irrationalities. Some corollaries of a theorem of Peck. (Russian) **94c:11061**
Rickert, John H. Simultaneous rational approximations and related Diophantine equations. (English summary) **94i:11043**
Tubbs, Robert *see* **Caveny, Deanna M., 94b:11059**
Wong, Pit-Mann Diophantine approximation and the theory of holomorphic curves. **94m:11083**

Items with secondary classifications in 11J68

Győry, Kálmán Some new results connected with resultants of polynomials and binary forms. **94i:11019**
Hindry, Marc Sur les conjectures de Mordell et Lang (d'après Vojta, Faltings et Bombieri). (English summary) [On the conjectures of Mordell and Lang (after Vojta, Faltings and Bombieri)] **94b:11052**
Schmidt, Wolfgang M. ★ Diophantine approximations and Diophantine equations. **94f:11059**
— Vojta's refinement of the subspace theorem. **94b:11058**
Xu, Guang Shan Simultaneous approximation of certain numbers. (Chinese. Chinese summary) **94c:11060**

11J70 Continued fractions and generalizations [see also 11A55, 11K50]

Adiga, Chandrashekar *see* **Bhargava, Srinivasamurthy; et al., 94a:11101**
Agarwal, Ratan Prakesh Padé approximants, continued fractions and Heine's q-hypergeometric series. **94g:11050**
Barbolosi, Dominique Automates et fractions continues. [Automata and continued fractions] **94k:11079**
Bhargava, Srinivasamurthy (*with* Adiga, Chandrashekar; Somashekara, D. D.) A generalization of Shiokawa's rational approximations to the Rogers-Ramanujan continued fraction. (English summary) **94a:11101**
Borwein, Jonathan M. (*with* Borwein, Peter B.) On the generating function of the integer part: $[n\alpha + \gamma]$. (English summary) **94i:11044**
Borwein, Peter B. *see* **Borwein, Jonathan M., 94i:11044**
Brown, Tom C. Descriptions of the characteristic sequence of an irrational. (English summary) **94g:11051**
Buck, Nicholas *see* **Williams, Kenneth S., 94f:11062**
Burger, Edward B. (*with* Struppeck, Thomas) On frequency distributions of partial quotients of U-numbers. **94m:11084**
Das, Raman Kumar *see* **Prasad, Arjun**
Ito, Shunji (*with* Tachii, Hiroko) A Diophantine algorithm and a reduction theory of ternary forms. **94k:11080**
Kacha, Ali Approximation algébrique de fractions continues. (English and French summaries) [Algebraic approximation of continued fractions] **94e:11078**
Mendès France, Michel Remarks and problems on finite and periodic continued fractions. (English summary) **94i:11045**
Prasad, Arjun (*with* Das, Raman Kumar) A note on asymmetric approximation.
Somashekara, D. D. *see* **Bhargava, Srinivasamurthy; et al., 94a:11101**
Struppeck, Thomas *see* **Burger, Edward B., 94m:11084**
Tachii, Hiroko *see* **Ito, Shunji, 94k:11080**
Tijdeman, R. Continued fraction approximations. (Dutch) **94c:11062**
Tong, Jing Cheng Approximation of irrational numbers by continued fractions. (English summary) **94h:11063**
Tripathi, Amitabha A comparison of dispersion and Markov constants. **94e:11079**
Williams, Kenneth S. (*with* Buck, Nicholas) Comparison of the lengths of the continued fractions of $\sqrt{D}$ and $\frac{1}{2}(1+\sqrt{D})$. **94f:11062**

Items with secondary classifications in 11J70

Bedocchi, Edmondo Fractions continues p-adiques: périodes de longueur paire. (Italian summary) [p-adic continued fractions: periods of even length] **94e:11128**
Cusick, T. W. (*with* Moran, William; Pollington, Andrew D.) An inhomogeneous Hall's ray. **94d:11050**
Douthett, Jack (*with* Entringer, Roger; Mullhaupt, Andrew) Musical scale construction: the continued fraction compromise. (English summary) **94a:11099**
Entringer, Roger *see* **Douthett, Jack; et al., 94a:11099**
Grabiner, David J. Farey nets and multidimensional continued fractions. (English summary) **94b:11009**
Lachaud, Gilles Polyèdre d'Arnol'd et voile d'un cône simplicial: analogues du théorème de Lagrange. (English and French summaries) [The Arnol'd polyhedron and the sail of a simplicial cone: analogues of the Lagrange theorem] **94m:11081**
Larcher, Gerhard (*with* Niederreiter, Harald) Kronecker-type sequences and non-Archimedean Diophantine approximations. **94c:11063**
Lehner, Joseph Lagrange's theorem for Hecke triangle groups. **94a:11011**
Matala-Aho, Tapani On Diophantine approximations of the Rogers-Ramanujan continued fraction. (English summary) **94j:11067**
Moran, William *see* **Cusick, T. W.; et al., 94d:11050**
Mullhaupt, Andrew *see* **Douthett, Jack; et al., 94a:11099**
Niederreiter, Harald *see* **Larcher, Gerhard, 94c:11063**
Pollington, Andrew D. *see* **Cusick, T. W.; et al., 94d:11050**
van der Poorten, A. J. (*with* Shallit, Jeffrey) A specialised continued fraction. (English summary) **94h:11001**
Shallit, Jeffrey *see* **van der Poorten, A. J., 94h:11001**
Yuan, Jin Transcendental continued fractions of p-adic numbers. (Chinese. English and Chinese summaries) **94k:11078**

11J71 Distribution modulo one [see also 11K06]

Larcher, Gerhard (*with* Niederreiter, Harald) Kronecker-type sequences and non-Archimedean Diophantine approximations. **94c:11063**
Niederreiter, Harald *see* **Larcher, Gerhard, 94c:11063**
Wooley, Trevor D. The application of a new mean value theorem to the fractional parts of polynomials. **94h:11064**

Items with secondary classifications in 11J71

Brown, Tom C. Descriptions of the characteristic sequence of an irrational. (English summary) **94g:11051**
Flatto, Leopold Z-numbers and β-transformations. (English summary) **94c:11065**
Geelen, J. F. (*with* Simpson, R. Jamie) A two-dimensional Steinhaus theorem. (English summary) **94k:11083**
Håland, Inger Johanne Uniform distribution of generalized polynomials. (English summary) **94i:11053**
Simpson, R. Jamie *see* **Geelen, J. F., 94k:11083**

11J72 Irrationality; linear independence over a field

Badea, Cătălin A theorem on irrationality of infinite series and applications. **94b:11062**
Chudnovsky, D. V. (*with* Chudnovsky, G. V.) Hypergeometric and modular function identities, and new rational approximations to and continued fraction expansions of classical constants and functions. **94f:11063**
Chudnovsky, G. V. *see* **Chudnovsky, D. V., 94f:11063**
Duverney, Daniel Propriétés arithmétiques d'une série liée aux fonctions thêta. [Arithmetic properties of series linked to theta functions] **94g:11052**
Hančl, Jaroslav (*with* Kiss, Péter) On reciprocal sums of terms of linear recurrences. (English summary) **94a:11102**
Hegyvári, Norbert On some irrational decimal fractions. **94e:11080**
Ivankov, P. L. Arithmetic properties of values of hypergeometric functions with different parameters. (Russian. Russian summary) **94a:11103**
Kiss, Péter *see* **Hančl, Jaroslav, 94a:11102**
Papp, F. J. $\sqrt{2}$ is irrational. (English summary) **94k:11081**
Schröder, Eberhard M. Zur Irrationalität von π^2 und π. [On the irrationality of π^2 and π] **94m:11085**

Items with secondary classifications in 11J72

Damamme, G. Irrationalité de $\zeta(s)$ pour $s \leq q$ dans certains modules de Drinfel'd de rang 1. [Irrationality of $\zeta(s)$ for $s \leq q$ in certain Drinfel'd modules of rank 1] **94m:11069**
Xu, Guang Shan Simultaneous approximation of certain numbers. (Chinese. Chinese summary) **94c:11060**

11J81 Transcendence (general theory)

Becker, Paul-Georg Automatische Folgen und Transzendenz in positiver Charakteristik. [Automata sequences and transcendence in positive characteristic] **94h:11065**
Caveny, Deanna M. U-numbers and T-numbers: some elementary transcendence and algebraic independence results. **94e:11081**
Hančl, Jaroslav Criterion for irrational sequences. (English summary) **94a:11104**
Oryan, M. H. Über gewisse Potenzreihen, deren Funktionswerte für Argumente aus der Menge der Liouvilleschen Zahlen transzendent sind. [On certain power series whose function values for arguments from the set of Liouville numbers are transcendental] **94j:11064**
Pollington, Andrew D. Sum sets and U-numbers. **94d:11051**
Shidlovskii, A. B. Transcendence of values of E-functions that are solutions of second-order linear differential equations. (Russian. Russian summary) **94i:11046**
Waldschmidt, Michel Transcendence problems connected with Drinfel'd modules. **94i:11047**
— Fonctions auxiliaires et fonctionnelles analytiques. I, II. (French summary) [Auxiliary functions and analytic functionals. I, II] **94h:11066**

Items with secondary classifications in 11J81

Berthé, Valérie Fonction ζ de Carlitz et automates. (French summary) [The Carlitz ζ-function and automata] **94k:11082**
Duverney, Daniel Une propriété arithmétique du nombre p-adique $\sum_{n=0}^{+\infty} a(n)p^{mn^2}$. (English and French summaries) [An arithmetic property of the p-adic number $\sum_{n=0}^{+\infty} a(n)p^{mn^2}$] **94g:11049**
Gramain, François Les degrés des nombres algébriques $\cos(2\pi/n)$ et $\sin(2\pi/n)$ et la transcendance de π. [The degrees of the algebraic numbers $\cos(2\pi/n)$ and $\sin(2\pi/n)$ and the transcendence of π] **94m:11001**
Shestakov, S. O. On the transcendence degree of some fields generated by values of an elliptic function. (Russian. Russian summary) **94a:11108**
Waldschmidt, Michel Minorations de combinaisons linéaires de logarithmes de nombres algébriques. (English and French summaries) [Lower bounds for linear combinations of algebraic numbers] **94f:11065**

11J82 Measures of irrationality and of transcendence

Bombieri, Enrico Effective Diophantine approximation on G_m. **94m:11086**
Caveny, Deanna M. Quantitative transcendence results for numbers associated with Liouville numbers. **94d:11052**
Chérif, H. (*with* de Mathan, B.) Irrationality measures of Carlitz zeta values in characteristic p. (English summary) **94g:11053**
Delaunay, Sandra Grands degrés de transcendance, les hypothèses techniques dans le cas exponentiel. I. (English and French summaries) [Large transcendence degree, technical hypotheses in the exponential case. I] **94j:11065a**
— Grands degrés de transcendance, les hypothèses techniques dans le cas exponentiel. II. (English and French summaries) [Large transcendence degree, technical hypotheses in the exponential case. II] **94j:11065b**
Diaz, Guy Une nouvelle minoration de $|\log\alpha - \beta|$, $|\alpha - \exp\beta|$, α et β algébriques. [A new lower bound for $|\log\alpha - \beta|$, $|\alpha - \exp\beta|$, α and β algebraic] **94h:11067**
Galochkin, A. I. Solutions of some equations that contain E-functions. (Russian. Russian summary) **94f:11064**
Hata, Masayoshi Improvement in the irrationality measures of π and π^2. **94b:11064**
— Rational approximations to π and some other numbers. **94e:11082**
— A lower bound for rational approximations to π. (English summary) **94b:11063**
Heimonen, Ari (*with* Matala-Aho, Tapani; Väänänen, Keijo) On irrationality measures of the values of Gauss hypergeometric function. (English summary) **94j:11066**
Matala-Aho, Tapani On Diophantine approximations of the Rogers-Ramanujan continued fraction. (English summary) **94j:11067**
— *see also* **Heimonen, Ari; et al., 94j:11066**
de Mathan, B. *see* **Chérif, H., 94g:11053**
Rhin, G. (*with* Viola, C.) On the irrationality measure of $\zeta(2)$. (English and French summaries) **94b:11065**
Väänänen, Keijo *see* **Heimonen, Ari; et al., 94j:11066**
Viola, C. *see* **Rhin, G., 94b:11065**
Waldschmidt, Michel Minorations de combinaisons linéaires de logarithmes de nombres algébriques. (English and French summaries) [Lower bounds for linear combinations of algebraic numbers] **94f:11065**

Items with secondary classifications in 11J82

Kacha, Ali Approximation algébrique de fractions continues. (English and French summaries) [Algebraic approximation of continued fractions] **94e:11078**
Moshchevitin, N. G. Approximations of cubic irrationalities. Some corollaries of a theorem of Peck. (Russian) **94c:11061**
Müller, Ralf Algebraische Unabhängigkeit der Werte gewisser Lückenreihen in nicht-archimedisch bewerteten Körpern. (English summary) [Algebraic independence of the values of certain gap series in non-Archimedean valued fields] **94j:11063**

11J83 Metric theory

Bernik, V. I. (*with* Kovalevskaya, È. I.) Distribution of the points of Schmidt's curve for almost all values of the argument. (Russian. English and Russian summaries) **94d:11053**
— (*with* Dombrovskii, I. V.) U_3-numbers on curves in $\mathbf{R}^2$. (Russian. English and Russian summaries) **94a:11105**
Dombrovskii, I. V. *see* **Bernik, V. I., 94a:11105**
Kovalevskaya, È. I. *see* **Bernik, V. I., 94d:11053**

Items with secondary classifications in 11J83

Dickinson, H. The Hausdorff dimension of systems of simultaneously small linear forms. **94m:11093**
Larcher, Gerhard (*with* Niederreiter, Harald) Kronecker-type sequences and non-Archimedean Diophantine approximations. **94c:11063**
Niederreiter, Harald *see* **Larcher, Gerhard, 94c:11063**

11J85 Algebraic independence; Gel'fond's method

Becker, Paul-Georg Algebraic independence of the values of certain series by Mahler's method. (English summary) **94b:11066**
Chirskii, V. G. On the arithmetic properties of values of G-functions. (Russian) **94a:11106**
Denis, Laurent Indépendance algébrique sur le module de Carlitz. (English and French summaries) [Algebraic independence on the Carlitz module] **94i:11048**
Gorelov, V. A. Estimates for the measures of algebraic independence of the values of E-functions. (Russian) **94i:11049**
Nishioka, Kumiko Note on a paper by Mahler. **94m:11087**

Items with secondary classifications in 11J85

Caveny, Deanna M. (*with* Tubbs, Robert) The arithmetic of well-approximated numbers. **94b:11059**
— U-numbers and T-numbers: some elementary transcendence and algebraic independence results. **94e:11081**
— Quantitative transcendence results for numbers associated with Liouville numbers. **94d:11052**
Delaunay, Sandra Grands degrés de transcendance, les hypothèses techniques dans le cas exponentiel. I. (English and French summaries) [Large transcendence degree, technical hypotheses in the exponential case. I] **94j:11065a**
— Grands degrés de transcendance, les hypothèses techniques dans le cas exponentiel. II. (English and French summaries) [Large transcendence degree, technical hypotheses in the exponential case. II] **94j:11065b**
Müller, Ralf Algebraische Unabhängigkeit der Werte gewisser Lückenreihen in nicht-archimedisch bewerteten Körpern. (English summary) [Algebraic independence of the values of certain gap series in non-Archimedean valued fields] **94j:11063**
Tubbs, Robert *see* **Caveny, Deanna M., 94b:11059**
Waldschmidt, Michel Minorations de combinaisons linéaires de logarithmes de nombres algébriques. (English and French summaries) [Lower bounds for linear combinations of algebraic numbers] **94f:11065**

11J86 Linear forms in logarithms; Baker's method

Baker, Alan (*with* Wüstholz, Gisbert) Logarithmic forms and group varieties. **94i:11050**
Becker, Paul-Georg (*with* Töpfer, Thomas) Irrationality results for reciprocal sums of certain Lucas numbers. **94m:11088**
Bennett, Michael A. Effective lower bounds for the fractional parts of powers of a dense set of rationals. (English summary) **94m:11089**
Hirata-Kohno, Noriko Approximations simultanées sur les groupes algébriques commutatifs. [Simultaneous approximations on commutative algebraic groups] **94b:11067**
Töpfer, Thomas *see* **Becker, Paul-Georg, 94m:11088**
Wüstholz, Gisbert *see* **Baker, Alan, 94i:11050**

Items with secondary classifications in 11J86

Blecksmith, Richard (*with* Filaseta, Michael; Nicol, C.) A result on the digits of a^n. **94d:11005**

Brindza, B. The Catalan equation over finitely generated integral domains. **94e:11028**

Caveny, Deanna M. (*with* Tubbs, Robert) The arithmetic of well-approximated numbers. **94b:11059**

Denis, Laurent Théorème de Baker et modules de Drinfel'd. (English summary) [Baker's theorem and Drinfel'd modules] **94b:11047**

Diaz, Guy Une nouvelle minoration de $|\log\alpha-\beta|$, $|\alpha-\exp\beta|$, α et β algébriques. [A new lower bound for $|\log\alpha-\beta|$, $|\alpha-\exp\beta|$, α and β algebraic] **94h:11067**

Filaseta, Michael *see* **Blecksmith, Richard; et al., 94d:11005**

Guthmann, Andreas Wieviele k-stellige Fibonaccizahlen gibt es? [How many k-ary Fibonacci numbers are there?] **94a:11022**

Kleiman, Howard On LBB hyperelliptic fields. **94b:11026**

Le, Mao Hua A note on the Diophantine equation $(x^m-1)/(x-1)=y^n$. **94e:11029**

— On the Diophantine equation $D_1x^2+D_2=2^{n+2}$. **94e:11030**

— A note on the Diophantine equation $x^2+4D=y^n$. (English summary) **94j:11036**

Nicol, C. *see* **Blecksmith, Richard; et al., 94d:11005**

Rieger, G. J. Effective simultaneous approximation of complex numbers by conjugate algebraic integers. **94f:11061**

Smart, N. P. A class of Diophantine equations. (English summary) **94a:11042**

— Solving a quartic discriminant form equation. (English summary) **94i:11026**

Thomas, Emery Solutions to infinite families of complex cubic Thue equations. **94g:11022**

Tubbs, Robert *see* **Caveny, Deanna M., 94b:11059**

Waldschmidt, Michel Minorations de combinaisons linéaires de logarithmes de nombres algébriques. (English and French summaries) [Lower bounds for linear combinations of algebraic numbers] **94f:11065**

de Weger, B. M. M. Correction to the paper: "A hyperelliptic Diophantine equation related to imaginary quadratic number fields with class number 2" [J. Reine Angew. Math. **427** (1992), 137–156; MR 93d:11034]. **94h:11026**

11J89 Transcendence theory of elliptic and abelian functions

Ably, Mohammed Sur l'analogue abélien du théorème de Lindemann-Weierstrass. (English and French summaries) [On the abelian analogue of the Lindemann-Weierstrass theorem] **94a:11107**

Shestakov, S. O. On the transcendence degree of some fields generated by values of an elliptic function. (Russian. Russian summary) **94a:11108**

Items with secondary classifications in 11J89

David, Sinnou Autour d'une conjecture de S. Lang. (English summary) [On a conjecture of S. Lang] **94b:11046**

Masser, David (*with* Wüstholz, Gisbert) Periods and minimal abelian subvarieties. **94g:11040**

Shiga, Hironori On the transcendency of the values of the modular function at algebraic points. (English summary) **94e:11069**

Wüstholz, Gisbert *see* **Masser, David, 94g:11040**

11J91 Transcendence theory of other special functions

Becker, Paul-Georg Transcendence of the values of functions satisfying generalized Mahler type functional equations. **94g:11054**

— (*with* Bergweiler, Walter) Transcendency of local conjugacies in complex dynamics and transcendency of their values. (English summary) **94i:11051**

Bergweiler, Walter *see* **Becker, Paul-Georg, 94i:11051**

Berthé, Valérie De nouvelles preuves "automatiques" de transcendance pour la fonction zêta de Carlitz. (French summary) [Some new "automatic" proofs of transcendence for the Carlitz zeta function] **94d:11054**

— Fonction ζ de Carlitz et automates. (French summary) [The Carlitz ζ-function and automata] **94k:11082**

Beukers, Frits Algebraic values of G-functions. **94d:11055**

Chirskii, V. G. Arithmetic properties of the values of some functions. (Russian) **94d:11056**

Damamme, G. Transcendence properties of Carlitz zeta-values. (English summary) **94a:11109**

Shidlovskii, A. B. On the arithmetical properties of the values of E-functions. (Spanish) **94a:11110**

Items with secondary classifications in 11J91

Borwein, Jonathan M. (*with* Borwein, Peter B.) On the generating function of the integer part: $[n\alpha+\gamma]$. (English summary) **94i:11044**

Borwein, Peter B. *see* **Borwein, Jonathan M., 94i:11044**

Chirskii, V. G. On the arithmetic properties of values of G-functions. (Russian) **94a:11106**

Duverney, Daniel Une propriété arithmétique du nombre p-adique $\sum_{n=0}^{+\infty}a(n)p^{mn^2}$. (English and French summaries) [An arithmetic property of the p-adic number $\sum_{n=0}^{+\infty}a(n)p^{mn^2}$] **94g:11049**

Gorelov, V. A. Estimates for the measures of algebraic independence of the values of E-functions. (Russian) **94i:11049**

Ivankov, P. L. Arithmetic properties of values of hypergeometric functions with different parameters. (Russian. Russian summary) **94a:11103**

Müller, Ralf Algebraische Unabhängigkeit der Werte gewisser Lückenreihen in nicht-archimedisch bewerteten Körpern. (English summary) [Algebraic independence of the values of certain gap series in non-Archimedean valued fields] **94j:11063**

Shidlovskii, A. B. Transcendence of values of E-functions that are solutions of second-order linear differential equations. (Russian. Russian summary) **94i:11046**

11J99 None of the above, but in this section

Aparicio Bernardo, E. Polynomials of minimal Diophantic relative deviation from zero on the interval [0, 1]. (English summary) **94j:11068**

Items with secondary classifications in 11J99

Aparicio Bernardo, E. Diophantine approximations of functions by polynomials. (Spanish) **94b:41005**

Elkadi, M. Bornes pour les degrés et les hauteurs dans le problème de division. (English summary) [Bounds for degrees and heights in the division problem] **94i:14063**

Schnorr, Claus-Peter Factoring integers and computing discrete logarithms via Diophantine approximation. (English summary) **94k:11131**

Waldschmidt, Michel Transcendence problems connected with Drinfel'd modules. **94i:11047**

11Kxx Probabilistic theory: distribution modulo 1; metric theory of algorithms

11K06 General theory of distribution modulo 1 [see also 11J71]

Beck, József Randomness of $n\sqrt{2}$ mod 1 and a Ramsey property of the hyperbola. (English summary) **94f:11066**

Berend, Daniel (*with* Peres, Yuval) Asymptotically dense dilations of sets on the circle. (English summary) **94b:11068**

Binder, Christa (*with* Hlawka, Edmund; Schoissengeier, Johannes) Über einige Beispiele für Anwendungen der Theorie der Gleichverteilung. (English summary) [Some examples of applications of the theory of uniform distribution] **94i:11052**

Geelen, J. F. (*with* Simpson, R. Jamie) A two-dimensional Steinhaus theorem. (English summary) **94k:11083**

Gotô, Kazuo (*with* Kano, Takeshi) Remarks to our former paper: "Uniform distribution of some special sequences" [Proc. Japan Acad. Ser. A Math. Sci. **61** (1985), no. 3, 83–86; MR 87a:11069]. (English summary) **94a:11111**

Håland, Inger Johanne Uniform distribution of generalized polynomials. (English summary) **94i:11053**

Hlawka, Edmund *see* **Binder, Christa; et al., 94i:11052**

Kano, Takeshi *see* **Gotô, Kazuo, 94a:11111**

Myerson, G. A sampler of recent developments in the distribution of sequences. **94a:11112**

Peres, Yuval *see* **Berend, Daniel, 94b:11068**

Porubský, Štefan *see* **Strauch, Oto, 94e:11083**

Schoissengeier, Johannes *see* **Binder, Christa; et al., 94i:11052**

Simpson, R. Jamie *see* **Geelen, J. F., 94k:11083**

Strauch, Oto (*with* Porubský, Štefan) Transformations that preserve uniform distribution. II. **94e:11083**

Sun, Yeneng Some properties of uniformly distributed sequences. (English summary) **94h:11068**

Wodzak, M. A. Primes in arithmetic progression and uniform distribution. (English summary) **94k:11084**

Items with secondary classifications in 11K06

Bleher, Pavel M. (*with* Cheng, Zheming; Dyson, Freeman J.; Lebowitz, Joel L.) Distribution of the error term for the number of lattice points inside a shifted circle. (English summary) **94g:11081**

Blyth, William F. *see* **Sloss, Bruce G., 94k:11087**

Cheng, Zheming *see* **Bleher, Pavel M.; et al., 94g:11081**

Choe, Geon H. Spectral types of uniform distribution. **94e:47014**

Dyson, Freeman J. *see* **Bleher, Pavel M.; et al., 94g:11081**

Fan, Ai Hua Lacunarité à la Hadamard et équirépartition. (French summary) [Lacunarity à la Hadamard and uniform distribution] **94j:11071**

Lebowitz, Joel L. *see* **Bleher, Pavel M.; et al., 94g:11081**

Ruzsa, Imre Z. On an inequality of Erdős and Turán concerning uniform distribution modulo one. I. **94b:11073**

Shakhverdyan, A. Yu. The boundary behavior of a billiard trajectory in an n-dimensional cube. (Russian) **94b:11071**

Sloss, Bruce G. (*with* Blyth, William F.) Walsh functions and uniform distribution mod 1. (English summary) **94k:11087**

Too, Yeu Hua On the uniform distribution modulo one of some log-like sequences. **94a:11114**

11K16 Normal numbers, radix expansions, etc. [see also 11A63]

Blanchard, F. (*with* Dumont, Jean-Marie) Generic sequences, transducers and multiplication of normal numbers. (English summary) **94d:11057**

Brown, Gavin (*with* Moran, William; Pollington, Andrew D.) Normality to noninteger bases. (English and French summaries) **94e:11084**

— (*with* Moran, William) Schmidt's conjecture on normality for commuting matrices. **94c:11064**

Dumont, Jean-Marie (*with* Thomas, Alain) Digital sum moments and substitutions. **94f:11067**

— *see also* **Blanchard, F., 94d:11057**

Feldman, Jacob (*with* Smorodinsky, Meir) Normal numbers from independent processes. **94b:11069**

Flajolet, Philippe (*with* Grabner, Peter J.; Kirschenhofer, Peter; Prodinger, Helmut; Tichy, Robert F.) Mellin transforms and asymptotics: digital sums. (English summary) **94m:11090**

Flatto, Leopold Z-numbers and β-transformations. (English summary) **94c:11065**

Grabner, Peter J. *see* **Flajolet, Philippe; et al., 94m:11090**

Kano, Hiroyuki² A remark on Wagner's ring of normal numbers. **94f:11068**

— General constructions of normal numbers of Korobov type. **94j:11069**

Kirschenhofer, Peter *see* **Flajolet, Philippe; et al., 94m:11090**

Moran, William *see* **Brown, Gavin, 94c:11064** *and* **94e:11084**

Nakai, Yoshinobu (*with* Shiokawa, Iekata) Discrepancy estimates for a class of normal numbers. **94a:11113**

Pollington, Andrew D. *see* **Brown, Gavin; et al., 94e:11084**

Prodinger, Helmut *see* **Flajolet, Philippe; et al., 94m:11090**
Shiokawa, Iekata *see* **Nakai, Yoshinobu, 94a:11113**
Smorodinsky, Meir *see* **Feldman, Jacob, 94b:11069**
Sury, B. Fractional parts of $\log p$ and a digit function. (English summary) **94g:11055**
Thomas, Alain *see* **Dumont, Jean-Marie, 94f:11067**
Tichy, Robert F. *see* **Flajolet, Philippe; et al., 94m:11090**

11K31 Special sequences

Boros, Z. Interval-filling sequences with respect to a finite set of real coefficients. (English summary) **94h:11069**
Boshernitzan, Michael D. Elementary proof of Furstenberg's Diophantine result. (English summary) **94k:11085**
Burke, John R. A general notion of independence of sequences of integers. (English summary) **94f:11069**
Daróczy, Zoltán (*with* Járai, Antal; Szabó, T.) On sequences of solid type. **94b:11070**
Járai, Antal *see* **Daróczy, Zoltán; et al., 94b:11070**
Pagès, Gilles van der Corput sequences, Kakutani transforms and one-dimensional numerical integration. (English summary) **94c:11066**
Shakhverdyan, A. Yu. The boundary behavior of a billiard trajectory in an n-dimensional cube. (Russian) **94b:11071**
Szabó, T. *see* **Daróczy, Zoltán; et al., 94b:11070**
Too, Yeu Hua On the uniform distribution modulo one of some log-like sequences. **94a:11114**

Items with secondary classifications in 11K31

Fujii, Akio Some problems of Diophantine approximation in the theory of the Riemann zeta function. II. **94b:11084**
Hellekalek, Peter Weyl sums over irrational rotations. (English summary) **94e:11095**

11K36 Well-distributed sequences and other variations

Bouleau, Nicolas A remark on random and equidistributed sequences. (English summary) **94m:11091**
Rieger, G. J. Über die Gleichung $ad - bc = 1$ und Gleichverteilung. [On the equation $ad - bc = 1$ and on uniform distribution] **94m:11092**

11K38 Irregularities of distribution, discrepancy [see also 11Nxx]

Beck, József On irregularities of point sets in the unit square. **94e:11085**
— (*with* Chen, W. W. L.) Irregularities of point distribution relative to half-planes. I. **94i:11054**
— (*with* Chen, W. W. L.) Irregularities of point distribution relative to convex polygons. II. **94i:11055**
Blyth, William F. *see* **Sloss, Bruce G., 94k:11087**
Bundschuh, P. (*with* Zhu, Yao Chen) A method for exact calculation of the discrepancy of low-dimensional finite point sets. I. (English summary) **94h:11070**
Chaix, Henri (*with* Faure, Henri) Discrépance et diaphonie en dimension un. [Discrepancy and diaphony in dimension one] **94a:11115**
Chen, W. W. L. *see* **Beck, József, 94i:11054** *and* **94i:11055**
Drmota, Michael Irregularities of distribution and convex sets. (English summary) **94i:11056**
Faure, Henri *see* **Chaix, Henri, 94a:11115**
Larcher, Gerhard Nets obtained from rational functions over finite fields. **94c:11067**
Niederreiter, Harald Constructions of low-discrepancy point sets and sequences. **94b:11072**
— Orthogonal arrays and other combinatorial aspects in the theory of uniform point distributions in unit cubes. (English summary) **94f:11070**
Razborov, A. A. (*with* Szemerédi, E.; Wigderson, Avi) Constructing small sets that are uniform in arithmetic progressions. (English summary) **94k:11086**
Rogers, Allen D. A functional from geometry with applications to discrepancy estimates and the Radon transform. **94c:11068**
Ruzsa, Imre Z. On an inequality of Erdős and Turán concerning uniform distribution modulo one. I. **94b:11073**
— The discrepancy of rectangles and squares. **94j:11070**
Schoissengeier, Johannes On the longest gaps in the sequence $(n\alpha)$ mod 1. **94g:11056**
— The discrepancy of $(n\alpha)_{n\geq 1}$. **94e:11086**
Sloss, Bruce G. (*with* Blyth, William F.) Walsh functions and uniform distribution mod 1. (English summary) **94k:11087**
Sun, Heng (*with* Xu, Yan Zhi) A generalization of Roth inequality on distribution. (English and Chinese summaries) **94a:11116**
Szemerédi, E. *see* **Razborov, A. A.; et al., 94k:11086**
Vaaler, Jeffrey D. Refinements of the Erdős-Turán inequality. **94c:11069**
Wigderson, Avi *see* **Razborov, A. A.; et al., 94k:11086**
Xu, Yan Zhi *see* **Sun, Heng, 94a:11116**
Zhu, Yao Chen *see* **Bundschuh, P., 94h:11070**

Items with secondary classifications in 11K38

Beck, József Randomness of $n\sqrt{2}$ mod 1 and a Ramsey property of the hyperbola. (English summary) **94f:11066**
Borel, Jean-Pierre Symbolic representation of piecewise linear functions on the unit interval and application to discrepancy. (English summary) **94m:11030**
Eichenauer-Herrmann, Jürgen (*with* Ickstadt, Katja) Explicit inversive congruential pseudorandom numbers with power of two modulus. (English summary) **94h:11071**
(Faure, Henri) *see* **Borel, Jean-Pierre, 94m:11030**
Gotô, Kazuo (*with* Kano, Takeshi) Remarks to our former paper: "Uniform distribution of some special sequences" [Proc. Japan Acad. Ser. A Math. Sci. **61** (1985), no. 3, 83–86; MR 87a:11069]. (English summary) **94a:11111**
Hellekalek, Peter On the boundedness of Weyl sums. (English summary) **94e:11094**
Ickstadt, Katja *see* **Eichenauer-Herrmann, Jürgen, 94h:11071**
Kano, Takeshi *see* **Gotô, Kazuo, 94a:11111**
Nakai, Yoshinobu (*with* Shiokawa, Iekata) Discrepancy estimates for a class of normal numbers. **94a:11113**
Pagès, Gilles van der Corput sequences, Kakutani transforms and one-dimensional numerical integration. (English summary) **94c:11066**
Pask, D. A. Ergodicity of certain cylinder flows. (English summary) **94a:28034**
Pustyl'nikov, L. D. Distribution of the fractional parts of values of a polynomial, Weyl sums and ergodic theory. (Russian) **94k:11094**
Rieger, G. J. Über die Gleichung $ad - bc = 1$ und Gleichverteilung. [On the equation $ad - bc = 1$ and on uniform distribution] **94m:11092**
Ruzimuradov, Kh. Kh. Fundamental rectangles of admissible lattices. (Russian. Russian summary) **94e:11074**
Shiokawa, Iekata *see* **Nakai, Yoshinobu, 94a:11113**
Skriganov, M. M. On integer points in polygons. (English and French summaries) **94d:11077**

11K41 Continuous, p-adic and abstract analogues

Fan, Ai Hua Lacunarité à la Hadamard et équirépartition. (French summary) [Lacunarity à la Hadamard and uniform distribution] **94j:11071**
Sun, Yeneng On metric theorems in the theory of uniform distribution. **94e:11087**

Items with secondary classifications in 11K41

Bouleau, Nicolas A remark on random and equidistributed sequences. (English summary) **94m:11091**
Larcher, Gerhard Nets obtained from rational functions over finite fields. **94c:11067**
Nair, Radhakrishnan On certain solutions of the Diophantine equation $x - y = p(z)$. **94a:11124**
Talamo, Rodolfo Uniquely ergodic dynamical systems and asymptotic distributions. (Italian) **94e:58077**

11K45 Pseudo-random numbers; Monte Carlo methods

Blöte, Henk W. J. *see* **Heringa, J. R.; et al., 94a:11118**
Compagner, A. *see* **Heringa, J. R.; et al., 94a:11118**
Eichenauer-Herrmann, Jürgen (*with* Niederreiter, Harald) Kloosterman-type sums and the discrepancy of nonoverlapping pairs of inversive congruential pseudorandom numbers. **94f:11071**
— On the discrepancy of inversive congruential pseudorandom numbers with prime power modulus. II. (English summary) **94g:11057**
— Improved lower bounds for the discrepancy of inversive congruential pseudorandom numbers. (English summary) **94g:11058**
— (*with* Ickstadt, Katja) Explicit inversive congruential pseudorandom numbers with power of two modulus. (English summary) **94h:11071**
— On generalized inversive congruential pseudorandom numbers. (English summary) **94k:11088**
Flahive, Mary (*with* Niederreiter, Harald) On inversive congruential generators for pseudorandom numbers. **94a:11117**
Hansen, Tom (*with* Mullen, Gary L.; Niederreiter, Harald) Good parameters for a class of node sets in quasi-Monte Carlo integration. (English summary) **94e:11088**
Heringa, J. R. (*with* Blöte, Henk W. J.; Compagner, A.) New primitive trinomials of Mersenne-exponent degrees for random-number generation. **94a:11118**
Ickstadt, Katja *see* **Eichenauer-Herrmann, Jürgen, 94h:11071**
Lagarias, Jeffrey C. Pseudorandom numbers. (English summary) (*see* **94c:68097**)
Larcher, Gerhard A class of low-discrepancy point-sets and its application to numerical integration by number-theoretical methods. **94e:11089**
Marsaglia, George The mathematics of random number generators. **94a:11119**
Mullen, Gary L. A note on a finite field pseudorandom vector generator of Niki. (English summary) **94a:11120**
— *see also* **Hansen, Tom; et al., 94e:11088**
Niederreiter, Harald Finite fields, pseudorandom numbers, and quasirandom points. **94a:11121**
— *see also* **Flahive, Mary, 94a:11117**; **Hansen, Tom; et al., 94e:11088** *and* **Eichenauer-Herrmann, Jürgen, 94f:11071**

Items with secondary classifications in 11K45

Dieter, Ulrich Erzeugung von gleichverteilten Zufallszahlen. [Generation of uniformly distributed random numbers] **94c:65012**
Eichenauer-Herrmann, Jürgen Explicit inversive congruential pseudorandom numbers: the compound approach. (English and German summaries) **94k:65011**
Larcher, Gerhard (*with* Traunfellner, Claudia) On the numerical integration of Walsh series by number-theoretic methods. (English summary) **94j:65030**
Niederreiter, Harald (*with* Schnorr, Claus-Peter) Local randomness in polynomial random number and random function generators. (English summary) **94i:68229**
Schnorr, Claus-Peter *see* **Niederreiter, Harald, 94i:68229**
Tichy, Robert F. Stability of a class of nonuniform random number generators. (English summary) **94m:65018**
Traunfellner, Claudia *see* **Larcher, Gerhard, 94j:65030**

11K50 Metric theory of continued fractions [see also 11A55, 11J70]

Iosifescu, Marius (*with* Kalpazidou, Sofia) The nearest integer continued fraction expansion: an approach in the spirit of Doeblin. (English summary) **94h:11072**
— Doeblin and the metric theory of continued fractions: a functional-theoretic solution to Gauss' 1812 problem. (English summary) **94h:11073**
Kalpazidou, Sofia *see* **Iosifescu, Marius, 94h:11072**
Kraaikamp, Cornelis Maximal S-expansions are Bernoulli shifts. (English and French summaries) **94h:11074**
Nair, Radhakrishnan On the metrical theory of continued fractions. (English summary) **94f:11072**

Items with secondary classifications in 11K50

Dodson, M. M. Hausdorff dimension, lower order and Khintchine's theorem in metric Diophantine approximation. **94a:11125**
Ganesa Moorthy, C. A problem of Good on Hausdorff dimension. **94c:11070**
Hall, R. R. (*with* Huxley, M. N.) Dedekind sums and continued fractions. **94a:11059**
Huxley, M. N. *see* **Hall, R. R., 94a:11059**
Ito, Shunji (*with* Keane, Michael S.; Ohtsuki, Makoto) Almost everywhere exponential convergence of the modified Jacobi-Perron algorithm. (English summary) **94i:11058**
Keane, Michael S. *see* **Ito, Shunji; et al., 94i:11058**
Knopfmacher, Arnold *see* **Knopfmacher, John, 94c:11071**
Knopfmacher, John (*with* Knopfmacher, Arnold) Metric properties of algorithms inducing Lüroth series expansions of Laurent series. (English summary) **94c:11071**
Lagarias, Jeffrey C. The quality of the Diophantine approximations found by the Jacobi-Perron algorithm and related algorithms. (English summary) **94j:11074**
Ohtsuki, Makoto *see* **Ito, Shunji; et al., 94i:11058**
Schmidt, Thomas A. Remarks on the Rosen λ-continued fractions. **94i:11034**

11K55 Metric theory of other algorithms and expansions; measure and Hausdorff dimension [see also 11N99, 28Dxx]

Bernik, V. I. (*with* Pereverzeva, N. A.) The method of trigonometric sums and lower estimates of Hausdorff dimension. (English summary) **94a:11122**
Brown, Gavin (*with* Yin, Qing He) Some metric properties of sum sets. **94j:11072**
Dickinson, H. The Hausdorff dimension of systems of simultaneously small linear forms. **94m:11093**
Frougny, Christiane (*with* Solomyak, B. M.) Finite beta-expansions. (English summary) **94a:11123**
Ganesa Moorthy, C. A problem of Good on Hausdorff dimension. **94c:11070**
Hlawka, Edmund Über eine Klasse von Näherungspolygonen zur Peanokurve. (English summary) [On a class of approximation polygons for the Peano curve] **94e:11090**
Knopfmacher, Arnold *see* **Knopfmacher, John, 94c:11071**
Knopfmacher, John (*with* Knopfmacher, Arnold) Metric properties of algorithms inducing Lüroth series expansions of Laurent series. (English summary) **94c:11071**
Kőrnyei, I. The Hausdorff dimension of the boundary of sets $\{z \in \mathbf{C},\ z = \sum_{k=1}^{\infty} a_k/\alpha^k,\ 0 \le a_k < N(\alpha),\ \deg(\alpha) = 2\}$. **94j:11073**
Lacroix, Y. Metric properties of generalized Cantor products. **94i:11057**
Mendès France, Michel (*with* Tenenbaum, Gérald) Systèmes de points, diviseurs et structure fractale. (English and French summaries) [Systems of points, divisors and fractal structure] **94c:11072**
Nair, Radhakrishnan On certain solutions of the Diophantine equation $x - y = p(z)$. **94a:11124**
Pereverzeva, N. A. *see* **Bernik, V. I., 94a:11122**
Rynne, Bryan P. Regular and ubiquitous systems, and $\mathscr{L}^r_\infty$-dense sequences. (English summary) **94c:11073**
Solomyak, B. M. *see* **Frougny, Christiane, 94a:11123**
Tenenbaum, Gérald *see* **Mendès France, Michel, 94c:11072**
Velani, S. L. Diophantine approximation and Hausdorff dimension in Fuchsian groups. **94d:11058**
Yin, Qing He *see* **Brown, Gavin, 94j:11072**

Items with secondary classifications in 11K55

Berend, Daniel (*with* Peres, Yuval) Asymptotically dense dilations of sets on the circle. (English summary) **94b:11068**
Boshernitzan, Michael D. Quantitative recurrence results. (English summary) **94k:28028**
Daróczy, Zoltán (*with* Járai, Antal; Szabó, T.) On sequences of solid type. **94b:11070**
Dodson, M. M. Hausdorff dimension, lower order and Khintchine's theorem in metric Diophantine approximation. **94a:11125**
Hinokuma, Takanori (*with* Shiga, Hiroo) A remark on theorem of Jarnik. **94b:11074**
Indlekofer, K.-H. (*with* Kátai, Imre; Racskó, P.) Number systems and fractal geometry. **94g:11089**
Iosifescu, Marius (*with* Kalpazidou, Sofia) The nearest integer continued fraction expansion: an approach in the spirit of Doeblin. (English summary) **94h:11072**
Járai, Antal *see* **Daróczy, Zoltán; et al., 94b:11070**
Kalpazidou, Sofia *see* **Iosifescu, Marius, 94h:11072**
Kátai, Imre *see* **Indlekofer, K.-H.; et al., 94g:11089**
Matsumoto, Kohji Asymptotic probability measures of Euler products. **94c:11084**
Peres, Yuval *see* **Berend, Daniel, 94b:11068**
Pinch, R. G. E. Binomial equivalence of algebraic integers. **94a:11160**
Racskó, P. *see* **Indlekofer, K.-H.; et al., 94g:11089**
Shiga, Hiroo *see* **Hinokuma, Takanori, 94b:11074**
Szabó, T. *see* **Daróczy, Zoltán; et al., 94b:11070**

11K60 Diophantine approximation [see also 11Jxx]

Dodson, M. M. Hausdorff dimension, lower order and Khintchine's theorem in metric Diophantine approximation. **94a:11125**
Harman, Glyn Metrical theorems on fractional parts of real sequences. II. (English summary) **94f:11073**
Hinokuma, Takanori (*with* Shiga, Hiroo) A remark on theorem of Jarnik. **94b:11074**
Ito, Shunji (*with* Keane, Michael S.; Ohtsuki, Makoto) Almost everywhere exponential convergence of the modified Jacobi-Perron algorithm. (English summary) **94i:11058**
Keane, Michael S. *see* **Ito, Shunji; et al., 94i:11058**
Lagarias, Jeffrey C. The quality of the Diophantine approximations found by the Jacobi-Perron algorithm and related algorithms. (English summary) **94j:11074**
Luquín Martínez, Francisco Uniform Diophantine approximation of functions differentiable finitely many times. (Spanish) **94d:11059**
Ohtsuki, Makoto *see* **Ito, Shunji; et al., 94i:11058**
Shiga, Hiroo *see* **Hinokuma, Takanori, 94b:11074**

Items with secondary classifications in 11K60

Beck, József Randomness of $n\sqrt{2}$ mod 1 and a Ramsey property of the hyperbola. (English summary) **94f:11066**
Callier, Frank M. Recent advances on spectral factorization and LQ-optimal regulation for multivariable distributed systems. (English summary) **94d:93072**
Feldman, Joel S. (*with* Trubowitz, Eugene) Renormalization in classical mechanics and many-body quantum field theory. (English summary) **94j:81163**
Fujii, Akio Some problems of Diophantine approximation in the theory of the Riemann zeta function. III. **94i:11065**
— Some problems of Diophantine approximation in the theory of the Riemann zeta function. II. **94b:11084**
Petit, Bernard Le théorème limite central pour des sommes de Riesz-Raikov. (English summary) [A central limit theorem for Riesz-Raikov sums] **94a:11127**
Trubowitz, Eugene *see* **Feldman, Joel S., 94j:81163**

11K65 Arithmetic functions [see also 11Nxx]

de la Cal, Jesús On the Erdős-Wintner theorem in Banach spaces. (English summary) **94a:11126**
Galambos, Janos Extensions of some extremal properties of prime divisors to Poisson limit theorems. **94b:11075**
Grigelionis, B. Additive arithmetic functions and processes with independent increments. (English summary) **94b:11076**
Indlekofer, K.-H. (*with* Kátai, Imre) On the distribution of translates of additive functions. **94b:11077**
Kátai, Imre Distribution of q-additive function. **94b:11078**
— *see also* **Indlekofer, K.-H., 94b:11077**
Kryžius, Z. Topics on arithmetic functions with rational arguments. (English summary) **94b:11075**
Manstavičius, Eugenijus Letter to the editors: "A nonuniform estimate in the central limit theorem for additive functions" [Litovsk. Mat. Sb. **29** (1989), no. 3, 507–516; MR 91c:11046]. (Russian)
Mauclaire, Jean-Loup Sur la répartition des fonctions q-additives. [On the distribution of q-additive functions] **94k:11089**
Timofeev, N. M. (*with* Usmanov, Kh. Kh.) Distribution of the values of the sum of additive functions with shifted arguments. (Russian. Russian summary) **94b:11079**
Tulyaganov, S. T. An estimate for the concentration function of multiplicative functions and its applications. (Russian) **94c:11074**
Usmanov, Kh. Kh. *see* **Timofeev, N. M., 94b:11079**

Items with secondary classifications in 11K65

Codecà, Paolo (*with* Nair, Mohan) On Elliott's theorem on multiplicative functions. **94g:11071**
De Koninck, Jean-Marie (*with* Kátai, Imre; Mercier, Armel) On the normal growth of prime factors of integers. (English summary) **94c:11093**
Donnelly, Peter (*with* Grimmett, Geoffrey) On the asymptotic distribution of large prime factors. (English summary) **94c:11087**
Grimmett, Geoffrey *see* **Donnelly, Peter, 94c:11087**
Indlekofer, K.-H. (*with* Kátai, Imre) On the modulus of continuity of the distribution of some arithmetical functions. (English summary) **94b:11097**
— (*with* Kátai, Imre) Estimation of generalized moments of additive functions over the set of shifted primes. **94g:11076**
Kátai, Imre *see* **Indlekofer, K.-H., 94b:11097**; **De Koninck, Jean-Marie; et al., 94c:11093** *and* **Indlekofer, K.-H., 94g:11076**
Lucht, Lutz An application of Banach algebra techniques to multiplicative functions. **94g:11072**
Maxsein, Thomas (*with* Schwarz, Wolfgang Karl) A new proof of a theorem concerning functions in different spaces of almost-periodic arithmetical functions. **94c:11075**
Mercier, Armel *see* **De Koninck, Jean-Marie; et al., 94c:11093**
Nair, Mohan *see* **Codecà, Paolo, 94g:11071**
Schwarz, Wolfgang Karl *see* **Maxsein, Thomas, 94c:11075**
Tulyaganov, S. T. Summation of multiplicative functions with weight $1/n$. (Russian. Russian summary) **94i:11071**

11K70 Harmonic analysis and almost periodicity

Indlekofer, K.-H. A new method in probabilistic number theory. **94e:11091**
Maxsein, Thomas (*with* Schwarz, Wolfgang Karl) A new proof of a theorem concerning functions in different spaces of almost-periodic arithmetical functions. **94c:11075**
Petit, Bernard Le théorème limite central pour des sommes de Riesz-Raikov. (English summary) [A central limit theorem for Riesz-Raikov sums] **94a:11127**
Schwarz, Wolfgang Karl *see* **Maxsein, Thomas, 94c:11075**

11K99 None of the above, but in this section

Gutjahr, Walter J. Generating nonequivalent arithmetical expressions uniformly at random. (English summary) **94k:11090**

Items with secondary classifications in 11K99

Alexander, Kenneth S. (*with* Baclawski, Kenneth; Rota, Gian-Carlo) A stochastic interpretation of the Riemann zeta function. (English summary) **94m:11096**
Baclawski, Kenneth *see* **Alexander, Kenneth S.; et al., 94m:11096**
Burger, Edward B. (*with* Struppeck, Thomas) On frequency distributions of partial quotients of U-numbers. **94m:11084**
Esseen, Carl-Gustav A stochastic model for primitive roots. **94m:11110**
Grigelionis, B. Additive arithmetic functions and processes with independent increments. (English summary) **94b:11076**
Rota, Gian-Carlo *see* **Alexander, Kenneth S.; et al., 94m:11096**
Struppeck, Thomas *see* **Burger, Edward B., 94m:11084**

11Lxx Exponential sums and character sums {For finite fields, see 11Txx.}

11L03 Trigonometric and exponential sums, general

Allen, Scott (*with* Pathria, R. K.) On the conjectures of Henkel and Weston. (English summary) **94k:11091**
Pathria, R. K. *see* **Allen, Scott, 94k:11091**
Wan, Da Qing Newton polygons of zeta functions and L functions. **94f:11074**

Items with secondary classifications in 11L03

Barvinok, A. I. Computing the volume, counting integral points, and exponential sums. (English summary) **94d:52005**
Bernik, V. I. (*with* Pereverzeva, N. A.) The method of trigonometric sums and lower estimates of Hausdorff dimension. (English summary) **94a:11122**
Étesse, Jean-Yves (*with* Le Stum, Bernard) Fonctions L associées aux F-isocristaux surconvergents. I. Interprétation cohomologique. [L-functions associated with superconvergent F-isocrystals. I. Cohomological interpretation] **94i:14030**
Le Stum, Bernard *see* **Étesse, Jean-Yves, 94i:14030**
Nair, Radhakrishnan On polynomials in primes and J. Bourgain's circle method approach to ergodic theorems. II. (English summary) **94j:28009**
Pagès, Gilles van der Corput sequences, Kakutani transforms and one-dimensional numerical integration. (English summary) **94c:11066**
Pereverzeva, N. A. *see* **Bernik, V. I., 94a:11122**
Yogananda, C. S. Transformation formula for exponential sums involving Fourier coefficients of modular forms. (English summary) **94e:11045**

11L05 Gauss and Kloosterman sums; generalizations

Fisher, Benji Distinctness of Kloosterman sums. (English summary) **94e:11092**
Gyoja, Akihiko Lefschetz principle in the theory of prehomogeneous vector spaces. **94m:11094**
— (*with* Ono, Takashi) A note on Jacobi sums. II. **94k:11092**
Helou, Charles Reciprocity for Jacobi sums. (English summary) **94f:11075**
Karatsuba, A. A. Distribution of inverse values in a residue ring modulo a given number. (Russian) **94m:11095**
Kida, Masanari (*with* Ono, Takashi) A note on Jacobi sums. **94c:11076**
Liu, Chun Lei On incomplete Gaussian sums.
Ono, Takashi A note on Jacobi sums. III. (English summary) **94k:11093**
— *see also* **Kida, Masanari, 94c:11076** *and* **Gyoja, Akihiko, 94k:11092**
Queffélec, Hervé Sur un théorème de Gluskin-Meyer-Pajor. (English and French summaries) [On a theorem of Gluskin, Meyer and Pajor] **94g:11059**
Vardi, Ilan Dedekind sums have a limiting distribution. **94b:11080**
Voronin, S. M. On Kloosterman sums. (Russian. Russian summary) **94f:11076**

Items with secondary classifications in 11L05

Burde, Klaus Ergänzungsgesetze. [Residuacity laws] **94g:11004**
Eichenauer-Herrmann, Jürgen (*with* Niederreiter, Harald) Kloosterman-type sums and the discrepancy of nonoverlapping pairs of inversive congruential pseudorandom numbers. **94f:11071**
Evans, Ronald J. Character sums over finite fields. (English summary) **94c:11118**
Hayes, David R. Hecke characters and Eisenstein reciprocity in function fields. **94a:11084**
Helversen-Pasotto, Anna (*with* Solé, Patrick) Barnes' first lemma and its finite analogue. (English summary) **94m:33001**
— Gamma-function and Gaussian-sum-function. **94j:11125**
Kohnen, Winfried On Poincaré series of exponential type on Sp_2. **94k:11056**
Merrill, Kathy D. (*with* Walling, Lynne H.) Sums of squares over function fields. (English summary) **94k:11046**
Miatello, Roberto J. Kuznetsov formulas. **94a:11073**
Niederreiter, Harald *see* **Eichenauer-Herrmann, Jürgen, 94f:11071**
Solé, Patrick *see* **Helversen-Pasotto, Anna, 94m:33001**
Thakur, Dinesh S. Behaviour of function field Gauss sums at infinity. (English summary) **94h:11104**
— Shtukas and Jacobi sums. (English summary) **94a:11086**
(Voloch, José Felipe) *see* **Thakur, Dinesh S., 94h:11104**
Walling, Lynne H. *see* **Merrill, Kathy D., 94k:11046**
Wójcik, Jan Powers of cyclotomic numbers. (English summary) **94b:11107**
Zhang, Wen Peng On a problem of D. H. Lehmer and its generalization. (English summary) **94f:11104**
— A problem of D. H. Lehmer and a generalization of it. (Chinese. English and Chinese summaries) **94f:11099**

11L07 Estimates on exponential sums

Huxley, M. N. A note on short exponential sums. (English summary) **94e:11093**
Jutila, Matti Transformations of exponential sums. **94i:11059**
Skorobogatov, A. N. Exponential sums, the geometry of hyperplane sections, and some Diophantine problems. (English summary) **94d:11060**

Items with secondary classifications in 11L07

Deshouillers, Jean-Marc Sur la majoration de sommes de Weyl biquadratiques. [Upper bounds for biquadratic Weyl sums] **94a:11128**
Eichenauer-Herrmann, Jürgen On generalized inversive congruential pseudorandom numbers. (English summary) **94k:11088**
Fabrykowski, J. A note on sums of powers of complex numbers. **94k:11106**
Fouvry, Étienne (*with* Pomykała, Jacek) Rang des courbes elliptiques et sommes d'exponentielles. (English summary) [Rank of elliptic curves and exponential sums] **94g:11037**
Fujii, Akio A divisor problem. I. **94f:11094**
Huxley, M. N. Exponential sums and lattice points. II. (English summary) **94b:11100**
Joyce, G. S. Asymptotic behaviour of rigid-rotor partition functions. (English summary) **94e:82003**
Liu, Hong Quan Supplement: "On the number of abelian groups of a given order" [Acta Arith. **59** (1991), no. 3, 261–277; MR 92i:11103]. **94g:11073**
Pomykała, Jacek *see* **Fouvry, Étienne, 94g:11037**
Sander, J. W. Reprise: "Prime power divisors of binomial coefficients" [J. Reine Angew. Math. **430** (1992), 1–20; MR 93h:11021]. **94c:11020**
Schmidt, Peter Georg Zur Anzahl unitärer Faktoren abelscher Gruppen. [On the number of unitary factors in abelian groups] **94k:11108**
Wooley, Trevor D. The application of a new mean value theorem to the fractional parts of polynomials. **94h:11064**

11L15 Weyl sums

Deshouillers, Jean-Marc Sur la majoration de sommes de Weyl biquadratiques. [Upper bounds for biquadratic Weyl sums] **94a:11128**
Hellekalek, Peter On the boundedness of Weyl sums. (English summary) **94e:11094**
— Weyl sums over irrational rotations. (English summary) **94e:11095**
Kudryavtsev, M. V. Estimation of a complete rational trigonometric sum. I. (Russian. Russian summary) **94j:11075**
Pustyl'nikov, L. D. Distribution of the fractional parts of values of a polynomial, Weyl sums and ergodic theory. (Russian) **94k:11094**
Wooley, Trevor D. Quasi-diagonal behaviour in certain mean value theorems of additive number theory. **94j:11076**

11L20 Sums over primes

Goldston, D. A. An exponential sum over primes. **94d:11061**

Items with secondary classifications in 11L20

Lavrik, A. F. An approximate functional equation for the zeta function and a part of the Euler product over prime numbers. (Russian) **94a:11131**
— Correction to: "An approximate functional equation for the zeta function and a part of the Euler product over prime numbers" [Dokl. Akad. Nauk **326** (1992), no. 1, 22–25; MR 94a:11131]. **94k:11095**
Ou, Zhi Ming The theory of exponent pairs. (Chinese. English summary) **94m:11104**
Rakhmonov, Z. Kh. Mean values of the Chebyshev function. (Russian) **94j:11087**
— A theorem on the mean value of $\psi(x,\chi)$ and its applications. (Russian. Russian summary) **94h:11082**
Wodzak, M. A. Primes in arithmetic progression and uniform distribution. (English summary) **94k:11084**

11L26 Sums over arbitrary intervals

Montgomery, Hugh L. (*with* Vaaler, Jeffrey D.) Maximal variants of basic inequalities. **94d:11062**
Vaaler, Jeffrey D. *see* **Montgomery, Hugh L., 94d:11062**

11L40 Estimates on character sums

Items with secondary classifications in 11L40

Jutila, Matti Transformations of exponential sums. **94i:11059**
Katz, Nicholas M. Estimates for Soto-Andrade sums. **94h:11109**
Meurman, Tom A simple proof of Voronoi's identity. (English summary) **94d:11070**
Zhang, Wen Peng A new mean value formula of Dirichlet's L-functions. (English summary) **94c:11078**

11L99 None of the above, but in this section

Items with secondary classifications in 11L99

Kukhtin, V. V. (*with* Shramko, O. V.) Analogues of the Euler constant for two- and three-dimensional spaces. (Ukrainian. English and Russian summaries) **94m:11152**
Shramko, O. V. *see* **Kukhtin, V. V., 94m:11152**

11Mxx Zeta and L-functions: analytic theory

Cartier, Pierre Des nombres premiers à la géométrie algébrique (une brève histoire de la fonction zéta). [From primes to algebraic geometry (a brief history of the zeta function)] **94i:11060**

Items with secondary classifications in 11Mxx

Hida, Haruzo ★ Elementary theory of L-functions and Eisenstein series. **94j:11044**
Karatsuba, A. A. ★ Basic analytic number theory. **94a:11001**
(Nathanson, Melvyn B.) *see* **Karatsuba, A. A., 94a:11001**

11M06 $\zeta(s)$ and $L(s,\chi)$

Alexander, Kenneth S. (*with* Baclawski, Kenneth; Rota, Gian-Carlo) A stochastic interpretation of the Riemann zeta function. (English summary) **94m:11096**
Baclawski, Kenneth *see* **Alexander, Kenneth S.; et al., 94m:11096**
Balasubramanian, Ramachandran (*with* Ramachandra, K.) On the zeros of $\zeta(s)-a$. **94d:11063**
— (*with* Ivić, Aleksandar; Ramachandra, K.) An application of the Hooley-Huxley contour. **94i:11061**
Bartz, Krystyna M. On some complex explicit formulae connected with the Möbius function. III. (English summary) **94a:11129**
Buschman, R. G. (*with* Srivastava, Hari M.) Asymptotic behavior of some power series with ζ-functions in the coefficients. (English summary) **94f:11077**

Cartier, Pierre An introduction to zeta functions. **94b:11081**
Conrey, J. B. (*with* Ghosh, Amit) Mean values of the Riemann zeta-function. III. **94i:11062**
Ghosh, Amit *see* **Conrey, J. B., 94i:11062**
Heath-Brown, D. R. Fractional moments of the Riemann zeta-function. II. **94b:11082**
Hejhal, Dennis A. On polynomial approximations to $Z(t)$. **94g:11060**
Ivić, Aleksandar ★ Lectures on mean values of the Riemann zeta function. **94g:11061**
— Power moments of the error term in the approximate functional equation for $\zeta^2(s)$. **94m:11097**
— *see also* **Balasubramanian, Ramachandran; et al., 94i:11061**
Kalla, Shyam L. (*with* Villalobos, Alfredo) Laplace and Mellin transforms in number theory. (Spanish. Spanish summary) **94j:11077**
Katsurada, Masanori Asymptotic expansions of the mean square of Dirichlet L-functions. **94a:11130**
Kiuchi, Isao An improvement on the mean value formula for the approximate functional equation of the square of the Riemann zeta-function. (English summary) **94i:11063**
— On the mean-square for the approximate functional equation of the Riemann zeta-function. **94j:11078**
Laurinčikas, Antanas A limit theorem with a weight for the Riemann zeta function. (Russian. Lithuanian summary) **94j:11079**
Lavrik, A. F. An approximate functional equation for the zeta function and a part of the Euler product over prime numbers. (Russian) **94a:11131**
— Correction to: "An approximate functional equation for the zeta function and a part of the Euler product over prime numbers" [Dokl. Akad. Nauk **326** (1992), no. 1, 22–25; MR 94a:11131]. **94k:11095**
(Montgomery, Hugh L.) *see* **Ramachandra, K., 94m:11098**
Motohashi, Yōichi The fourth power mean of the Riemann zeta-function. **94d:11064**
— An explicit formula for the fourth power mean of the Riemann zeta-function. **94d:11065**
Nair, Mohan (*with* Perelli, Alberto) An asymptotic formula for moments of reciprocal values of L-functions. **94g:11062**
Nakaya, Hideki Some mean squares in connection with $\zeta(1+it)$. **94j:11080**
Perelli, Alberto *see* **Nair, Mohan, 94g:11062**
Ramachandra, K. (*with* Sankaranarayanan, Ayyadurai) On some theorems of Littlewood and Selberg. II, III. **94f:11082**
— (*with* Sankaranarayanan, Ayyadurai) Note on a paper by H. L. Montgomery (Omega theorems for the Riemann zeta-function): "Extreme values of the Riemann zeta function" [Comment. Math. Helv. **52** (1977), no. 4, 511–518; MR **57** #249]. (English summary) **94m:11098**
— *see also* **Balasubramanian, Ramachandran, 94d:11063** *and* **94i:11061**
Rane, V. V. Dirichlet L-function and power series for Hurwitz zeta function. (English summary) **94j:11081**
Rota, Gian-Carlo *see* **Alexander, Kenneth S.; et al., 94m:11096**
Sankaranarayanan, Ayyadurai (*with* Srinivas, K.) Mean-value theorem of the Riemann zeta-function over short intervals. (English summary) **94i:11064**
— *see also* **Ramachandra, K., 94f:11082** *and* **94m:11098**
Sondow, Jonathan Analytic continuation of Riemann's zeta function and values at negative integers via Euler's transformation of series. **94d:11066**
Srinivas, K. *see* **Sankaranarayanan, Ayyadurai, 94i:11064**
Srivastava, Hari M. *see* **Buschman, R. G., 94f:11077**
Tsang, Kai Man The large values of the Riemann zeta-function. (English summary) **94k:11096**
Villalobos, Alfredo *see* **Kalla, Shyam L., 94j:11077**
Watt, N. A hybrid bound for Dirichlet L-functions on the critical line. **94e:11096**
Williams, Floyd L. An analogue of Hüber's formula for Riemann's zeta function. **94a:11132**
Williams, Kenneth S. *see* **Zhang, Nan Yue, 94m:11099**
Zhang, Nan Yue Asymptotic representations of several series for the Riemann zeta function. (Chinese. English summary) **94f:11078**
— (*with* Williams, Kenneth S.) Some series representations of $\zeta(2n+1)$. **94m:11099**

Items with secondary classifications in 11M06

Akiyama, Shigeki A new type of inclusion exclusion principle for sequences and asymptotic formulas for $\zeta(k)$. (English summary) **94k:11027**
Balasubramanian, Ramachandran (*with* Ramachandra, K.) On the zeros of a class of generalised Dirichlet series. XI. (English summary) **94c:11081**
Beukers, Frits (*with* Kolk, Johan A. C.; Calabi, Eugenio) Sums of generalized harmonic series and volumes. **94j:11022**
Bhowmik, Gautami Average orders of certain functions connected with arithmetic of matrices. **94j:11092**
Calabi, Eugenio *see* **Beukers, Frits; et al., 94j:11022**
Campbell, Geoffrey B. Dirichlet summations and products over primes. (English summary) **94c:11082**
Joyner, David On the Montgomery-Dyson hypothesis. **94h:11077**
Jutila, Matti Riemann's zeta-function and the divisor problem. II. **94h:11089**
Keating, Jonathan The semiclassical sum rule and Riemann's zeta-function. (*see* **94d:81009**)
Khuri, N. N. A new approach to path integrals. (English summary) **94f:58023**
Knauf, Andreas On a ferromagnetic spin chain. (English summary) **94d:82011**
Kolk, Johan A. C. *see* **Beukers, Frits; et al., 94j:11022**
Laurinčikas, Antanas Once again on the function $\sigma_a(m)$. (Russian. Lithuanian summary) **94a:11149**
Leindler, László Generalizations of some theorems of Mulholland concerning Dirichlet series. **94j:41010**
Millane, R. P. Möbius transform pairs. (English summary) **94e:11005**
Newman, Donald J. A "natural" proof of the nonvanishing of L-series. **94a:11135**
Novák, Břetislav Once again on the Riemann zeta function. (Czech) **94g:11065**
Ramachandra, K. On Riemann zeta-function and allied questions. **94a:11138**
— *see also* **Balasubramanian, Ramachandran, 94c:11081**
Rumely, Robert Numerical computations concerning the ERH. (English summary) **94b:11085**
Shen, Li-Chien On the logarithmic derivative of a theta function and a fundamental identity of Ramanujan. **94k:11053**
Wooley, Trevor D. On Vinogradov's mean value theorem. II. **94d:11075**
Yildirim, C. Yalçin On the zeros of the sections of the exponential function. (English and Turkish summaries) **94a:30005**
Zhang, Wen Peng On the fourth power mean of Dirichlet L-functions. **94f:11079**
— The $2k$th power means of inverses of Dirichlet L-functions. (Chinese. Chinese summary) **94f:11080**

11M20 Real zeros of $L(s,\chi)$; results on $L(1,\chi)$

Barrucand, Pierre (*with* Louboutin, Stéphane) Minoration au point 1 des fonctions L attachées à des caractères de Dirichlet. [Lower bound at the point 1 of L-functions associated with Dirichlet characters] **94g:11063**
Louboutin, Stéphane Quelques formules exactes pour des moyennes de fonctions L de Dirichlet. (French summary) [Some exact formulas for averages of Dirichlet L-functions] **94c:11077**
— *see also* **Barrucand, Pierre, 94g:11063**
Stark, Harold M. Dirichlet's class-number formula revisited. **94a:11133**
Zhang, Wen Peng On the fourth power mean of Dirichlet L-functions. **94f:11079**
— The kth power mean formula for L-functions. (Chinese. Chinese summary) **94m:11100**
— A new mean value formula of Dirichlet's L-functions. (English summary) **94c:11078**
— The $2k$th power means of inverses of Dirichlet L-functions. (Chinese. Chinese summary) **94f:11080**
— On the $2k$th power mean of inversion of Dirichlet L-functions. (English summary) **94k:11097**

Items with secondary classifications in 11M20

Balasubramanian, Ramachandran (*with* Murty, V. Kumar) Zeros of Dirichlet L-functions. **94d:11067**
Murty, V. Kumar *see* **Balasubramanian, Ramachandran, 94d:11067**

11M26 Nonreal zeros of $\zeta(s)$ and $L(s,\chi)$; Riemann and other hypotheses

Balasubramanian, Ramachandran (*with* Murty, V. Kumar) Zeros of Dirichlet L-functions. **94d:11067**
Csordas, George (*with* Odlyzko, Andrew M.; Smith, Wayne Stewart; Varga, Richard S.) A new Lehmer pair of zeros and a new lower bound for the de Bruijn-Newman constant Λ. (English summary) **94k:11098**
Fujii, Akio On the distribution of the zeros of the Riemann zeta function. **94b:11083**
— Some observations concerning the distribution of the zeros of the zeta functions. I. **94h:11076**
— Some problems of Diophantine approximation in the theory of the Riemann zeta function. III. **94i:11065**
— Some problems of Diophantine approximation in the theory of the Riemann zeta function. II. **94b:11084**
Gonek, S. M. An explicit formula of Landau and its applications to the theory of the zeta-function. **94a:11134**
Heath-Brown, D. R. Zero-free regions of $\zeta(s)$ and $L(s,\chi)$. **94c:11079**
Joyner, David On the Montgomery-Dyson hypothesis. **94h:11077**
Li, Yun Feng On Segal's conjecture on Ingham's summability method. (English and Chinese summaries) **94g:11064**
Murty, V. Kumar *see* **Balasubramanian, Ramachandran, 94d:11067**
Newman, Donald J. A "natural" proof of the nonvanishing of L-series. **94a:11135**
Novák, Břetislav Once again on the Riemann zeta function. (Czech) **94g:11065**
Odlyzko, Andrew M. *see* **Csordas, George; et al., 94k:11098**
Özlük, Ali E. (*with* Snyder, Chip) Small zeros of quadratic L-functions. (English summary) **94c:11080**
Ramachandra, K. Application of a theorem of Montgomery and Vaughan to the zeta-function. II. **94j:11082**
— (*with* Sankaranarayanan, Ayyadurai) On some theorems of Littlewood and Selberg. I. (English summary) **94f:11081**
Rumely, Robert Numerical computations concerning the ERH. (English summary) **94b:11085**
Sankaranarayanan, Ayyadurai (*with* Srinivas, K.) On the papers of Ramachandra and Kātai. **94e:11097**
— *see also* **Ramachandra, K., 94f:11081**
Smith, Wayne Stewart *see* **Csordas, George; et al., 94k:11098**
Snyder, Chip *see* **Özlük, Ali E., 94c:11080**
Srinivas, K. *see* **Sankaranarayanan, Ayyadurai, 94e:11097**
Varga, Richard S. *see* **Csordas, George; et al., 94k:11098**
Vaughan, R. C. On the eigenvalues of Redheffer's matrix. I. **94b:11086**

Items with secondary classifications in 11M26

Bartz, Krystyna M. On some complex explicit formulae connected with the Möbius function. III. (English summary) **94a:11129**
Bukhgeim, A. L. Ill-posed problems, number theory and tomography. (Russian. Russian summary) **94e:44002**
Hejhal, Dennis A. On polynomial approximations to $Z(t)$. **94g:11060**
Jones, Gareth A. $6/\pi^2$. **94m:11002**
Kaczorowski, Jerzy The boundary values of generalized Dirichlet series and a problem of Chebyshev. (English summary) **94a:11144**
Lavrik, A. F. An approximate functional equation for the zeta function and a part of the Euler product over prime numbers. (Russian) **94a:11131**
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11M35 Hurwitz and Lerch zeta functions

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11M41 Other Dirichlet series and zeta functions {For local and global ground fields, see 11R42, 11R52, 11S40, 11S45; for algebro-geometric methods, see 14G10; see also 11E45, 11F66, 11F70, 11F72.}

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11M45 Tauberian theorems [see also 40E05]

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11M99 None of the above, but in this section

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11Nxx Multiplicative number theory

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11N05 Distribution of primes

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11N13 Primes in progressions [see also 11B25]

Friedlander, John B. (*with* Granville, Andrew) Relevance of the residue class to the abundance of primes. **94i:11067**
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11N25 Distribution of integers with specified multiplicative constraints

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— On the distribution of gaps between squarefree numbers. **94m:11106**
Graham, S. W. Moments of gaps between k-free numbers. (English summary) **94h:11084**
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Nakaya, Hideki The generalized divisor problem in arithmetic progressions. **94a:11145**
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11N30 Turán theory [see also 30Bxx]

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11N32 Primes represented by polynomials; other multiplicative structure of polynomial values

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11N35 Sieves

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— (*with* Halberstam, H.; Richert, H.-E.) A boundary value problem for a pair of differential delay equations related to sieve theory. II. (English summary) **94j:11089**
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Richert, H.-E. *see* **Diamond, Harold G.; et al., 94c:11090** *and* **94j:11089**
Sárközy, András A note on the arithmetic form of the large sieve. **94c:11091**
Xie, Sheng Gang The linear combinatorial sieve. II. (Chinese. English summary) **94a:11147**

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Bach, Eric (*with* Sorenson, Jonathan) Sieve algorithms for perfect power testing. (English summary) **94d:11103**
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11N36 Applications of sieve methods

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Long, Rui Lin (*with* Liu, Zheng Quan) Application to Dirichlet series of maximal large sieve inequality. (English summary) **94b:11095**
Ruzsa, Imre Z. Large prime factors of sums. **94i:11072**
Sárközy, G. N. On a problem of P. Erdős. **94c:11092**

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Coleman, M. D. The Rosser-Iwaniec sieve in number fields, with an application. **94h:11086**
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— (*with* Halberstam, H.; Richert, H.-E.) A boundary value problem for a pair of differential delay equations related to sieve theory. II. (English summary) **94j:11089**
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Gordon, Daniel M. Discrete logarithms in GF(p) using the number field sieve. (English summary) **94d:11104**
Halberstam, H. *see* **Diamond, Harold G.; et al., 94c:11090** *and* **94j:11089**
Kaczorowski, Jerzy (*with* Perelli, Alberto) On the distribution of primes in short intervals. **94e:11100**
Lou, Shi Tuo (*with* Yao, Qi) Estimate of sums of Dirichlet series. **94b:11090**
Mikawa, Hiroshi On the exceptional set in Goldbach's problem. **94c:11098**
Murty, Maruti Ram Finitely generated groups (mod p). (English summary) **94k:11113**
Nair, Mohan *see* **Fouvry, Étienne; et al., 94a:11076**
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Richert, H.-E. *see* **Diamond, Harold G.; et al., 94c:11090** *and* **94j:11089**
Rohrlich, David E. Variation of the root number in families of elliptic curves. **94d:11045**
Rubinstein, Michael A simple heuristic proof of Hardy and Littlewood's conjecture B. **94a:11143**
Soundararajan, K. Primes in a sparse sequence. (English summary) **94b:11094**
Tenenbaum, Gérald *see* **Fouvry, Étienne; et al., 94a:11076**
Tulyaganova, M. I. (*with* Fainleib, A. S.) On the density of prime vectors in lattices. **94j:11098**
Wu, Jie[1] Distribution des nombres $\mathscr{B}$-libres dans de petits intervalles. [Distribution of $\mathscr{B}$-free numbers in small intervals] **94m:11125**
Yao, Qi *see* **Lou, Shi Tuo, 94b:11090**

11N37 Asymptotic results on arithmetic functions

Bachman, Gennady On the coefficients of cyclotomic polynomials. **94d:11068**
Berend, Daniel (*with* Harmse, Jørgen E.) Gaps between consecutive divisors of factorials. (English and French summaries) **94k:11107**
Bhowmik, Gautami Divisor functions of integer matrices: evaluations, average orders and applications. (English summary) **94b:11096**
Calderón, Catalina Selberg's inequality in arithmetic progressions. (English summary) **94a:11148**
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— A sum related to a class of arithmetical functions. (English summary) **94h:11087**
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Codecà, Paolo (*with* Nair, Mohan) On Elliott's theorem on multiplicative functions. **94g:11071**
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De Koninck, Jean-Marie Sur les plus grands facteurs premiers d'un entier. (English summary) [On the largest prime factors of an integer] **94h:11088**
Elliott, P. D. T. A. Multiplicative functions on arithmetic progressions. VI. More middle moduli. **94i:11073**
Erdős, Paul (*with* Ivić, Aleksandar) The distribution of quotients of small and large additive functions. II. **94i:11074**
Esseen, Carl-Gustav A stochastic model for primitive roots. **94m:11110**
Fujii, Akio A divisor problem. I. **94f:11094**
Harmse, Jørgen E. *see* **Berend, Daniel, 94k:11107**
Ivić, Aleksandar *see* **Erdős, Paul, 94i:11074**
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Jutila, Matti Riemann's zeta-function and the divisor problem. II. **94h:11089**
Kennedy, Robert E. (*with* Cooper, Curtis) Sums of powers of digital sums. **94j:11090**
Kühleitner, Manfred An omega theorem on differences of two squares. **94f:11096**
— On a question of A. Schinzel concerning the sum $\sum_{n\le x}(r(n))^2$. **94f:11097**
— An omega theorem on Pythagorean triples. **94d:11069**
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Lin, Jia Fa Mean value estimates for some arithmetic functions of prime factors. (Chinese. English and Chinese summaries) **94j:11091**
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Nair, Mohan *see* **Codecà, Paolo, 94g:11071**
Nakajima, Masumi Shifted divisor problem and random divisor problem. **94e:11104**
Nakaya, Hideki On the generalized divisor problem in arithmetic progressions. (English summary) **94d:11071**
Panteleeva, E. I. A remark on the divisor problem. (Russian) **94h:11090**
Sita Ramaiah, V. (*with* Subbarao, M. V.) The maximal order of certain arithmetic functions. (English summary) **94i:11075**
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Warlimont, Richard Factorisatio numerorum with constraints. (English summary) **94f:11098**
Zhang, Wen Peng A problem of D. H. Lehmer and a generalization of it. (Chinese. English and Chinese summaries) **94f:11099**

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Bartz, Krystyna M. On some complex explicit formulae connected with the Möbius function. III. (English summary) **94a:11129**
Cohen, Graeme L. (*with* Hagis, Peter, Jr.) Arithmetic functions associated with the infinitary divisors of an integer. (English summary) **94c:11002**
Diamond, Harold G. (*with* Halberstam, H.; Richert, H.-E.) Sieve auxiliary functions. II. **94c:11090**
Everest, G. R. (*with* Loxton, J. H.) Counting algebraic units with bounded height. (English summary) **94g:11105**
Hagis, Peter, Jr. *see* **Cohen, Graeme L., 94c:11002**
Halberstam, H. *see* **Diamond, Harold G.; et al., 94c:11090**
Hall, R. R. Ω theorems for the complex divisor function. **94k:11105**
Halter-Koch, Franz On the asymptotic behaviour of the number of distinct factorizations into irreducibles. (English summary) **94m:11128**
Indlekofer, K.-H. (*with* Kátai, Imre) On the distribution of translates of additive functions. **94b:11077**
Kátai, Imre *see* **Indlekofer, K.-H., 94b:11077**
Kawada, Koichi On the asymptotic formula for the number of representations of numbers as the sum of a prime and a kth power. **94m:11115**
Kemeny, John G. Largest prime factor. (English summary) **94m:11112**
Loxton, J. H. *see* **Everest, G. R., 94g:11105**
Manstavičius, Eugenijus Letter to the editors: "A nonuniform estimate in the central limit theorem for additive functions" [Litovsk. Mat. Sb. **29** (1989), no. 3, 507–516; MR 91c:11046]. (Russian)
Mauclaire, Jean-Loup Sur la répartition des fonctions q-additives. [On the distribution of q-additive functions] **94k:11089**
Maxsein, Thomas (*with* Schwarz, Wolfgang Karl) A new proof of a theorem concerning functions in different spaces of almost-periodic arithmetical functions. **94c:11075**
Moree, Pieter On the number of y-smooth natural numbers $\le x$ representable as a sum of two integer squares. (English summary) **94g:11069**
Nakaya, Hideki The generalized divisor problem in arithmetic progressions. **94a:11145**
Richert, H.-E. *see* **Diamond, Harold G.; et al., 94c:11090**
Sárközy, András On sums $a+b$ and numbers of the form $ab+1$ with many prime factors. **94i:11070**
Schwarz, Wolfgang Karl *see* **Maxsein, Thomas, 94c:11075**
Stepanauskas, G. The local behaviour of some additive functions. **94k:11110**
Tulyaganov, S. T. An estimate for the concentration function of multiplicative functions and its applications. (Russian) **94c:11074**

Vaughan, R. C. On the eigenvalues of Redheffer's matrix. I. **94b:11086**
Wolke, Dieter Some applications to zero density theorems for L-functions. **94e:11108**
Xuan, Ti Zuo The Turán-Kubilius inequality for integers free of large prime factors. (English summary) **94a:11146**

11N45 Asymptotic results on counting functions for algebraic and topological structures

Bhowmik, Gautami Average orders of certain functions connected with arithmetic of matrices. **94j:11092**
Calderón, Catalina (*with* Zárate Azcuna, María José) The number of semisimple rings of order at most x. **94m:11111**
Cellini, Paola High order elements and number of roots of unity in a finite group. (English summary) **94f:11100**
Ivić, Aleksandar An asymptotic formula involving the enumerating function of finite abelian groups. (English summary) **94e:11105**
Liu, Hong Quan Supplement: "On the number of abelian groups of a given order" [Acta Arith. **59** (1991), no. 3, 261–277; MR 92i:11103]. **94g:11073**
Mačiulis, A. The mean values of multiplicative functions defined on a semigroup. (English summary) **94a:11150**
Manstavičius, Eugenijus Remarks on elements of semigroups that are free of large prime factors. (Russian. Lithuanian summary) **94j:11093**
Schmidt, Peter Georg Zur Anzahl unitärer Faktoren abelscher Gruppen. [On the number of unitary factors in abelian groups] **94k:11108**
Stong, Richard A. The average order of a matrix. (English summary) **94j:11094**
Warlimont, Richard Arithmetical semigroups. V. Multiplicative functions. (English summary) **94f:11102**
— Arithmetical semigroups. IV. Selberg's analysis. **94f:11101**
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Items with secondary classifications in 11N45

Fainleib, A. S. *see* **Tulyaganova, M. I., 94j:11058**
Geroldinger, Alfred (*with* Kaczorowski, Jerzy) Analytic and arithmetic theory of semigroups with divisor theory. **94g:11078**
Kaczorowski, Jerzy *see* **Geroldinger, Alfred, 94g:11078**
Nowak, Werner Georg On the distribution of integer ideals in algebraic number fields. **94k:11124**
Tulyaganova, M. I. (*with* Fainleib, A. S.) Distribution of prime vectors in integer lattices of general form. (Russian. English and Uzbek summaries) **94j:11058**

11N56 Rate of growth of arithmetic functions

De Koninck, Jean-Marie (*with* Kátai, Imre; Mercier, Armel) On the normal growth of prime factors of integers. (English summary) **94c:11093**
Kátai, Imre *see* **De Koninck, Jean-Marie; et al., 94c:11093**
Kemeny, John G. Largest prime factor. (English summary) **94m:11112**
Liu, Hong Quan Lower bounds for sums of Barban-Davenport-Halberstam type. **94c:11094**
Maier, Helmut Cyclotomic polynomials with large coefficients. **94g:11074**
Mercier, Armel *see* **De Koninck, Jean-Marie; et al., 94c:11093**
Patel, J. K. Order free integers (mod m). (English summary) **94i:11076**
Pintér, Ákos A note on the divisor functions. **94g:11075**
Sárközy, András (*with* Stewart, C. L.) On the average value for the number of divisors of sums $a + b$. **94k:11109**
Stewart, C. L. *see* **Sárközy, András, 94k:11109**

Items with secondary classifications in 11N56

Laurinčikas, Antanas Once again on the function $\sigma_a(m)$. (Russian. Lithuanian summary) **94a:11149**

11N60 Distribution functions associated with additive and positive multiplicative functions

Bui Minh Phong On a theorem of Kátai-Wirsing. **94i:11077**
Elliott, P. D. T. A. From a large sieve to the orthogonality of operators. **94m:11113**
Indlekofer, K.-H. (*with* Kátai, Imre) On the modulus of continuity of the distribution of some arithmetical functions. (English summary) **94b:11097**
— (*with* Kátai, Imre) Estimation of generalized moments of additive functions over the set of shifted primes. **94g:11076**
Joó, M. On additive functions. **94a:11151**
Kátai, Imre *see* **Indlekofer, K.-H., 94b:11097** *and* **94g:11076**
Plaksin, V. A. Letter to the editors: "The distribution of numbers that can be represented as the sum of two squares" [Izv. Akad. Nauk SSSR Ser. Mat. **51** (1987), no. 4, 860–877, 911; MR 89h:11062]. (Russian) **94a:11152**
Stepanauskas, G. The local behaviour of some additive functions. **94k:11110**
Xuan, Ti Zuo On the asymptotic behavior of the Dickman-de Bruijn function. **94j:11095**

Items with secondary classifications in 11N60

Cao, Hui Zhong A sum related to a class of arithmetical functions. (English summary) **94b:11087**
Indlekofer, K.-H. (*with* Kátai, Imre) On the distribution of translates of additive functions. **94b:11077**
Kátai, Imre Distribution of q-additive function. **94b:11078**
— *see also* **Indlekofer, K.-H., 94b:11077**
Mauclaire, Jean-Loup Sur la répartition des fonctions q-additives. [On the distribution of q-additive functions] **94k:11089**
Timofeev, N. M. (*with* Usmanov, Kh. Kh.) Distribution of the values of the sum of additive functions with shifted arguments. (Russian. Russian summary) **94b:11079**
Usmanov, Kh. Kh. *see* **Timofeev, N. M., 94b:11079**
Wolke, Dieter (*with* Zhan, Tao) On the distribution of integers with a fixed number of prime factors. **94e:11103**
Xuan, Ti Zuo The Turán-Kubilius inequality for integers free of large prime factors. (English summary) **94a:11146**
Zhan, Tao *see* **Wolke, Dieter, 94e:11103**

11N64 Other results on the distribution of values or the characterization of arithmetic functions

Cao, Hui Zhong The values of the function that enumerates multiplicative partitions. (Chinese. Chinese summary) **94m:11114**
Grabner, Peter J. Completely q-multiplicative functions: the Mellin transform approach. **94k:11111**
Granville, Andrew Solution to a problem of Bombieri. (English and Italian summaries) **94j:11096**
Indlekofer, K.-H. (*with* Kátai, Imre) Multiplicative functions with small increments. III. **94d:11072**
Kátai, Imre *see* **Indlekofer, K.-H., 94d:11072**
Kawada, Koichi On the asymptotic formula for the number of representations of numbers as the sum of a prime and a kth power. **94m:11115**
Kovács, Katalin On the characterization of additive functions with quadratic arguments. **94a:11153**
Montgomery, Hugh L. (*with* Vaughan, R. C.) A basic inequality. **94a:11154**
Ruzsa, Imre Z. Solving a linear equation in a set of integers. I. **94k:11112**
Shao, Pin Zong The Erdős property of the distribution of the values of arithmetic functions. I. (Chinese. English and Chinese summaries) **94c:11095**
— The Erdős property of the distribution of the values of arithmetical functions. II. (Chinese. English and Chinese summaries) **94g:11077**
Srinivasan, Seshadri Two results in number theory. (English summary) **94e:11106**
Vaughan, R. C. *see* **Montgomery, Hugh L., 94a:11154**
Wang, Qiao Lin *see* **Yu, Hong Bing, 94f:11103**
Yu, Hong Bing (*with* Wang, Qiao Lin) The representations of a number as the sum of two square-free numbers. (Chinese. English and Chinese summaries) **94f:11103**

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Erdős, Paul (*with* Hegyvári, Norbert) On prime-additive numbers. **94a:11156**
Hegyvári, Norbert *see* **Erdős, Paul, 94a:11156**
Karatsuba, A. A. Distribution of inverse values in a residue ring modulo a given number. (Russian) **94m:11095**
Liu, Hong Quan Lower bounds for sums of Barban-Davenport-Halberstam type. **94c:11094**
Mikawa, Hiroshi On the sum of a prime and a square. **94k:11117**
Nair, Mohan Multiplicative functions of polynomial values in short intervals. **94b:11093**
Wu, Jie[1] Sur l'équation $p + 2 = P_2$ dans les petits intervalles. [On the equation $p + 2 = P_2$ in short intervals] **94k:11118**

11N69 Distribution of integers in special residue classes

Murty, Maruti Ram Finitely generated groups (mod p). (English summary) **94k:11113**
Nymann, J. E. The distribution of relatively r-prime integers in residue classes. (English summary) **94b:11098**
Pustyl'nikov, L. D. On the distribution of quadratic residues and nonresidues and on a dynamical system. (Russian) **94d:11073**
Zhang, Wen Peng On a problem of D. H. Lehmer and its generalization. (English summary) **94f:11104**

Items with secondary classifications in 11N69

Kuba, G. On sums of two kth powers of numbers in residue classes. II. **94f:11106**

11N75 Applications of automorphic functions and forms to multiplicative problems [see also 11Fxx]

Items with secondary classifications in 11N75

Conrey, J. B. (*with* Ghosh, Amit) Turán inequalities and zeros of Dirichlet series associated with certain cusp forms. **94e:11056**
Fomenko, O. M. *see* **Golubeva, E. P., 94f:11042**
Ghosh, Amit *see* **Conrey, J. B., 94e:11056**
Golubeva, E. P. (*with* Fomenko, O. M.) Behavior of the L-functions of parabolic forms at the point $s = 1$. (Russian. Russian summary) **94f:11042**
Lieman, Daniel B. The GL(3) Rankin-Selberg convolution for functions not of rapid decay. **94a:11070**
Meurman, Tom A simple proof of Voronoĭ's identity. (English summary) **94d:11070**
Veech, William A. The billiard in a regular polygon. **94a:11074**

11N80 Generalized primes and integers

Geroldinger, Alfred (*with* Kaczorowski, Jerzy) Analytic and arithmetic theory of semigroups with divisor theory. **94g:11078**
Indlekofer, K.-H. The abstract prime number theorem for function fields. **94i:11078**
Kaczorowski, Jerzy *see* **Geroldinger, Alfred, 94g:11078**
Warlimont, Richard A relationship between two sequences and arithmetical semigroups. **94k:11114**

11N99 None of the above, but in this section

Wilson, J. C. On Fresnel-Kluyver integrals of order three. **94m:11116**

11Pxx Additive number theory; partitions

Items with secondary classifications in 11Pxx

Karatsuba, A. A. ★ Basic analytic number theory. **94a:11001**

(Nathanson, Melvyn B.) *see* **Karatsuba, A. A., 94a:11001**

11P05 Waring's problem and variants

Adiga, Chandrashekar *see* **Bhargava, Srinivasamurthy; et al., 94b:11099**
Bhargava, Srinivasamurthy (*with* Adiga, Chandrashekar; Somashekara, D. D.) Three-square theorem as an application of Andrews' identity. **94b:11099**
Bhattacharyya, Prodipeswar (*with* Sankar, S.) History of Waring's problem. (English summary) **94k:11115**
Car, Mireille The circle method and the strict Waring problem in function fields. **94h:11091**
Chen, Rui Qing New results on problems about sums of powers. (Chinese. Chinese summary)
Deshouillers, Jean-Marc (*with* Dress, François) Sums of 19 biquadrates: on the representation of large integers. **94g:11079**
— (*with* Dress, François) Numerical results for sums of five and seven biquadrates and consequences for sums of 19 biquadrates. (English summary) **94c:11096**
Dress, François *see* **Deshouillers, Jean-Marc, 94c:11096** *and* **94g:11079**
Habsieger, Laurent Applications of group representation theory to the easier Waring problem. (English summary) **94m:11117**
Li, Hong Ze An upper bound for solutions to additive equations. (Chinese. English and Chinese summaries) **94f:11105**
Lu, Ming Gao On Waring's problem for cubes and fifth power. (English summary) **94j:11097**
Nguyễn Quốc Thắng Representation of natural numbers by a cubic form in seven variables. (Russian. Russian summary) **94g:11080**
Sankar, S. *see* **Bhattacharyya, Prodipeswar, 94k:11115**
Somashekara, D. D. *see* **Bhargava, Srinivasamurthy; et al., 94b:11099**
Vaserstein, Leonid N. Ramsey's theorem and Waring's problem for algebras over fields. (English summary) **94a:11155**
Vaughan, R. C. (*with* Wooley, Trevor D.) Further improvements in Waring's problem. III. Eighth powers. (English summary) **94m:11118**
Wooley, Trevor D. On Vinogradov's mean value theorem. **94d:11074**
— A note on symmetric diagonal equations. **94d:11076**
— On Vinogradov's mean value theorem. II. **94d:11075**
— *see also* **Vaughan, R. C., 94m:11118**
Zenkin, A. A. Waring's problem for sums of fourth powers of positive integers: $g(1,4) = 21$. (Russian. Russian summary) **94m:11119**

Items with secondary classifications in 11P05

Adiga, Chandrashekar On the representations of an integer as a sum of two or four triangular numbers. (English summary) **94b:11030**
— Jacobi's two-square and four-square theorems via Roger's identity. (English summary)
Andrews, George E. (*with* Ekhad, Shalosh B.; Zeilberger, Doron) A short proof of Jacobi's formula for the number of representations of an integer as a sum of four squares. **94b:11015**
Car, Mireille Sommes d'exponentielles dans $\mathbf{F}_{2^n}((X^{-1}))$. [Exponential sums in $\mathbf{F}_{2^n}((X^{-1}))$] **94a:11192**
— (*with* Cherly, Jørgen) Sommes de cubes dans l'anneau $\mathbf{F}_{2^n}[X]$. [Sums of cubes in the ring $\mathbf{F}_{2^n}[X]$] **94j:11126**
— Waring's problem in function fields. (English summary) **94j:11127**
Cherly, Jørgen *see* **Car, Mireille, 94j:11126**
Ekhad, Shalosh B. *see* **Andrews, George E.; et al., 94b:11015**
Gritsenko, S. A. Three additive problems. (Russian. Russian summary) **94j:11099**
Plaksin, V. A. Letter to the editors: "The distribution of numbers that can be represented as the sum of two squares" [Izv. Akad. Nauk SSSR Ser. Mat. **51** (1987), no. 4, 860–877, 911; MR 89h:11062]. (Russian) **94a:11152**
Reichstein, Boris (*with* Reichstein, Zinovy) Surfaces parameterizing Waring presentations of smooth plane cubics. **94b:14022**
Reichstein, Zinovy *see* **Reichstein, Boris, 94b:14022**
Shou, Pei Gen A comment on Waring's problem concerning integer square matrices. (Chinese. Chinese summary) **94m:11034**
Wooley, Trevor D. Quasi-diagonal behaviour in certain mean value theorems of additive number theory. **94j:11076**
Zeilberger, Doron *see* **Andrews, George E.; et al., 94b:11015**

11P21 Lattice points in specified regions

Bleher, Pavel M. (*with* Cheng, Zheming; Dyson, Freeman J.; Lebowitz, Joel L.) Distribution of the error term for the number of lattice points inside a shifted circle. (English summary) **94g:11081**
— Distribution of the error term in the Weyl asymptotics for the Laplace operator on a two-dimensional torus and related lattice problems. **94g:11082**
Branton, Monique (*with* Sargos, Patrick) Points entiers au voisinage d'une courbe plane à très faible courbure. [Integral points near a plane curve with very weak curvature] **94m:11120**
Cheng, Zheming *see* **Bleher, Pavel M.; et al., 94g:11081**
Cilleruelo, Javier The distribution of the lattice points on circles. **94c:11097**
Dyson, Freeman J. *see* **Bleher, Pavel M.; et al., 94g:11081**
Everest, G. R. Corrigenda to: "Uniform distribution and lattice point counting" [J. Austral. Math. Soc. Ser. A **53** (1992), no. 1, 39–50; MR 93i:11114]. **94m:11124**
Fainleib, A. S. *see* **Tulyaganova, M. I., 94j:11098**
Hoeppner, Sabine *see* **Krätzel, Ekkehard, 94h:11092**
Horn, Günter Gitterpunkte über einem hyperbolischen Paraboloid. [Lattice points over a hyperbolic paraboloid] **94k:11116**
Huxley, M. N. Exponential sums and lattice points. II. (English summary) **94b:11100**
Katznelson, Yonatan R. Singular matrices and a uniform bound for congruence groups of $SL_n(\mathbf{Z})$. **94g:11083**
Krätzel, Ekkehard (*with* Hoeppner, Sabine) The number of lattice points inside and on the surface $|t_1|^k + |t_2|^k + \cdots + |t_n|^k = x$. **94h:11092**
Kuba, G. On sums of two kth powers of numbers in residue classes. II. **94f:11106**
— On representations of positive integers as a sum of two polynomials. II. **94m:11121**
Lebowitz, Joel L. *see* **Bleher, Pavel M.; et al., 94g:11081**
Lichtin, Ben The asymptotics of a lattice point problem determined by a hypoelliptic polynomial. **94e:11107**
van de Lune, J. (*with* Wattel, E.) Systematic computations on Gauss' lattice point problem (in commemoration of Johannes Gualtherus van der Corput, 1890–1975). **94h:11093**
Sargos, Patrick *see* **Branton, Monique, 94m:11120**
Skriganov, M. M. On integer points in polygons. (English and French summaries) **94d:11077**
Tulyaganova, M. I. (*with* Fainleĭb, A. S.) On the density of prime vectors in lattices. **94j:11098**
Wattel, E. *see* **van de Lune, J., 94h:11093**

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Barvinok, A. I. Computing the volume, counting integral points, and exponential sums. (English summary) **94d:52005**
Cappell, Sylvain E. (*with* Shaneson, Julius L.) Genera of algebraic varieties and counting of lattice points. (English summary) **94f:14018**
Cohen, Graeme L. On relatively prime numbers and oil drops. (English summary) **94h:11083**
Delmer, Francine (*with* Deshouillers, Jean-Marc) Une note sur les points entiers dans un corps convexe. (English summary) [A note on integral points in a convex region] **94e:11072**
Deshouillers, Jean-Marc *see* **Delmer, Francine, 94e:11072**
Duke, W. (*with* Rudnick, Z.; Sarnak, Peter) Density of integer points on affine homogeneous varieties. **94k:11072**
Katznelson, Yonatan R. Integral matrices of fixed rank. **94e:11073**
Kühleitner, Manfred An omega theorem on Pythagorean triples. **94d:11069**
Nakajima, Masumi Shifted divisor problem and random divisor problem. **94e:11104**
Pommersheim, James E. Toric varieties, lattice points and Dedekind sums. **94c:14043**
Rudnick, Z. *see* **Duke, W.; et al., 94k:11072**
Sarnak, Peter *see* **Duke, W.; et al., 94k:11072**
Shaneson, Julius L. *see* **Cappell, Sylvain E., 94f:14018**

11P32 Goldbach-type theorems; other additive questions involving primes

Arkhipov, G. I. (*with* Chubarikov, V. N.) On the number of summands in the Hilbert-Kamke problem in prime numbers. (Russian) **94i:11079**
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11R16 Cubic and quartic extensions

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Smart, N. P. Solving a quartic discriminant form equation. (English summary) **94i:11026**
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11R18 Cyclotomic extensions

Girstmair, Kurt On the cosets of the $2q$-power group in the unit group modulo p. (English summary) **94a:11165**
Greither, Cornelius Über relativ-invariante Kreiseinheiten und Stickelberger-Elemente. (English summary) [On relative-invariant circular units and Stickelberger elements] **94c:11105**
Harrop, Frederick F. Circular units of function fields. **94c:11106**
Horie, Kuniaki On the exponents of ideal class groups of cyclotomic fields. **94a:11166**
Metsänkylä, Tauno Cyclotomic fields, irregular primes, and supercomputing. (Finnish. English summary) **94g:11094**
Omagari, Hiroshi On the integral basis of the basic p^n-fields. **94f:11111**
Osada, Hiroyuki On the class-number of the maximal real subfield of a cyclotomic field. **94i:11085**
Schwarz, Wolfgang Demjanenko matrix and 2-divisibility of class numbers. **94g:11095**
Waterhouse, William C. The degrees of the cyclotomic extension fields. (English summary) **94j:11106**
Wójcik, Jan Powers of cyclotomic numbers. (English summary) **94b:11107**

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Coxeter, H. S. M. Cyclotomic integers, nondiscrete tessellations, and quasicrystals. (English summary) **94b:52029**
Feng, Ke Qin Zeta function, class number and cyclotomic units of cyclotomic function fields. (English summary) **94d:11091**
Girstmair, Kurt The relative class numbers of imaginary cyclic fields of degrees 4, 6, 8, and 10. (English summary) **94a:11170**
Gorodnichii, V. V. On an investigation in a cyclotomic field of some forms of equations. (Russian) **94m:11038**
Greither, Cornelius ★ Cyclic Galois extensions of commutative rings. **94k:11121**
Gyoja, Akihiko (*with* Ono, Takashi) A note on Jacobi sums. II. **94k:11092**
Lazarus, Andrew J. S. Cyclotomy and delta units. (English summary) **94d:11087**
Louboutin, Stéphane Quelques formules exactes pour des moyennes de fonctions L de Dirichlet. (French summary) [Some exact formulas for averages of Dirichlet L-functions] **94c:11077**
Ono, Takashi A note on Jacobi sums. III. (English summary) **94k:11093**
— *see also* **Gyoja, Akihiko, 94k:11092**
Ruppert, Wolfgang M. Solving algebraic equations in roots of unity. **94c:11054**

11R20 Other abelian and metabelian extensions

Furuta, Yoshiomi (*with* Kubota, Tomio) Central extensions and rational quadratic forms. **94j:11107**
Girstmair, Kurt On the trace of the ring of integers of an abelian number field. **94a:11167**
Jehanne, Arnaud Des extensions sextiques de Q de clôture galoisienne engendrée par deux corps cubiques linéairement disjoints. [Sextic extensions of Q with Galois closure generated by two linearly disjoint cubic fields] **94f:11112**
Kubota, Tomio *see* **Furuta, Yoshiomi, 94j:11107**
Lan, Yi Zhong On number fields with an unramified abelian extension of degree 2^{n+2}. (English summary) **94b:11108**
Leep, David B. (*with* Wadsworth, Adrian R.) The Hasse norm theorem mod squares. (English summary) **94b:11109**
Wadsworth, Adrian R. *see* **Leep, David B., 94b:11109**
Yamamura, Ken The determination of the imaginary abelian number fields with class number one. (English summary) **94g:11096**

Items with secondary classifications in 11R20

Berg, Michael C. On a generalization of Hecke ϑ-functions and the analytic proof of higher reciprocity laws. (English summary) **94f:11031**
Ernvall, R. (*with* Metsänkylä, Tauno) Computation of the zeros of p-adic L-functions. II. (English summary) **94e:11125**
Girstmair, Kurt On the l-divisibility of the relative class number of certain cyclic number fields. **94e:11115**
— The relative class numbers of imaginary cyclic fields of degrees 4, 6, 8, and 10. (English summary) **94a:11170**
Greither, Cornelius ★ Cyclic Galois extensions of commutative rings. **94k:11121**
Harrop, Frederick F. Circular units of function fields. **94c:11106**
Horie, Kuniaki On a ratio between relative class numbers. **94a:11171**
Lazarus, Andrew J. S. Cyclotomy and delta units. (English summary) **94d:11087**
Mäki, Sirpa The conductor density of abelian number fields. **94b:11115**
Metsänkylä, Tauno *see* **Ernvall, R., 94e:11125**
Schlickewei, Hans Peter (*with* Stepanov, S. A.) Algorithms to construct normal bases of cyclic number fields. (English summary) **94d:11081**
Stepanov, S. A. *see* **Schlickewei, Hans Peter, 94d:11081**

11R21 Other number fields

Items with secondary classifications in 11R21

Diaz y Diaz, F. *see* **Schwarz, A.; et al., 94i:11108**
Louboutin, Stéphane Calcul des nombres de classes relatifs: application aux corps octiques quaternioniques à multiplication complexe. (English and French summaries) [Computation of relative class numbers of CM-fields: application to octic quaternion CM-fields] **94j:11111**
Pohst, Michael E. *see* **Schwarz, A.; et al., 94i:11108**
Schwarz, A. (*with* Pohst, Michael E.; Diaz y Diaz, F.) A table of quintic number fields. (English summary) **94i:11108**
Shparlinskiĭ, I. E. *see* **Stepanov, S. A., 94a:11177**
Skoruppa, Nils-Peter Quick lower bounds for regulators of number fields. (English summary) **94g:11098**
Stepanov, S. A. (*with* Shparlinskiĭ, I. E.) On normal bases of algebraic number fields. (English summary) **94a:11177**
Waterhouse, William C. The normal closures of certain Kummer extensions. (English summary) **94m:12005**

11R23 Iwasawa theory

Guo, Li[3] On a generalization of Tate dualities with application to Iwasawa theory. **94d:11085**
Michel, Alexis Une formule de Riemann-Hurwitz pour le groupe de Selmer d'une courbe elliptique. (English and French summaries) [A Riemann-Hurwitz formula for the Selmer group of an elliptic curve] **94g:11097**
Nguyễn-Quang-Đỗ, Thống Sur la p-ramification non abélienne de corps de nombres totalement réels. [On the nonabelian p-ramification of totally real number fields] **94b:11110**
Tang, Shu-Leung Iwasawa invariants of imaginary quadratic fields. (English summary) **94i:11086**
Taya, Hisao On the Iwasawa λ-invariants of real quadratic fields. **94f:11113**
Wingberg, Kay On the maximal unramified p-extension of an algebraic number field. **94j:11108**
Yamashita, Hiroshi On the Iwasawa invariants of totally real number fields. (English summary) **94d:11086**

Items with secondary classifications in 11R23

Ernvall, R. (*with* Metsänkylä, Tauno) Computation of the zeros of p-adic L-functions. II. (English summary) **94e:11125**
Gras, Georges Mesures p-adiques. [p-adic measures] **94j:11121**
Greither, Cornelius ★ Cyclic Galois extensions of commutative rings. **94k:11121**
Kato, Kazuya Iwasawa theory and p-adic Hodge theory. **94f:11056**
Metsänkylä, Tauno *see* **Ernvall, R., 94e:11125**
Nguyễn-Quang-Đỗ, Thống Erratum: "Higher analogues of the wild kernel" [Sém. Théor. Nombres Bordeaux (2) **4** (1992), no. 2, 263–271; MR 93m:19009]. (French)
— K_3 et formules de Riemann-Hurwitz p-adiques. (English summary) [K_3 and p-adic Riemann-Hurwitz formulas] **94m:11139**
Taylor, M. J. The Galois module structure of certain arithmetic principal homogeneous spaces. **94a:11178**

11R27 Units and factorization

Hajir, Farshid Elliptic units of cyclic unramified extensions of complex quadratic fields. **94h:11102**
Halter-Koch, Franz Relative block semigroups and their arithmetical applications. (English summary) **94a:11168**
— Relative types and their arithmetical applications. (English summary) **94e:11114**
— On the asymptotic behaviour of the number of distinct factorizations into irreducibles. (English summary) **94m:11128**
— Factorization problems in class number two. **94j:11109**
Lazarus, Andrew J. S. Cyclotomy and delta units. (English summary) **94d:11087**
Levesque, Claude $\mathbf{Z}_p$-independent systems of units. **94c:11107**
Louboutin, Stéphane Minorations d'unités fondamentales—applications. [Lower bounds for fundamental units—applications] **94f:11114**
Skoruppa, Nils-Peter Quick lower bounds for regulators of number fields. (English summary) **94g:11098**
Takaku, Akira (*with* Yoshimoto, Shin-Ichirou) Fundamental unit of the real quadratic field $\mathbf{Q}(\sqrt{v(v^3+1)(v^6+3v^3+3)})$. **94m:11129**
Yoshimoto, Shin-Ichirou *see* **Takaku, Akira, 94m:11129**

Items with secondary classifications in 11R27

Buchmann, Johannes (*with* Pohst, Michael E.; von Schmettow, J. Graf) On unit groups and class groups of quartic fields of signature (2, 1). (English summary) **94c:11125**
Cánovas Orvay, Francisca Fundamental units in a family of cyclic cubic fields. (English summary) **94f:11110**
Everest, G. R. (*with* Gagen, T. M.) Measures associated to the inverse regulator of a number field. **94a:11182**
— (*with* Loxton, J. H.) Counting algebraic units with bounded height. (English summary) **94g:11105**
Gagen, T. M. *see* **Everest, G. R., 94a:11182**
Ge, Guoqiang Recognizing units in number fields. (English summary) **94i:11107**
Geroldinger, Alfred Arithmetical characterizations of divisor class groups. II. **94a:11169**
— (*with* Kaczorowski, Jerzy) Analytic and arithmetic theory of semigroups with divisor theory. **94g:11078**
Greither, Cornelius Über relativ-invariante Kreiseinheiten und Stickelberger-Elemente. (English summary) [On relative-invariant circular units and Stickelberger elements] **94c:11105**
Hajdu, L. A quantitative version of Dirichlet's S-unit theorem in algebraic number fields. **94e:11118**
Halter-Koch, Franz Über Längen nicht-eindeutiger Faktorisierungen und Systeme linearer diophantischer Ungleichungen. (English summary) [On lengths of nonunique factorizations and systems of linear Diophantine inequalities] **94f:11022**
Horie, Kuniaki On the exponents of ideal class groups of cyclotomic fields. **94a:11166**

Kaczorowski, Jerzy *see* **Geroldinger, Alfred, 94g:11078**
Lachaud, Gilles Polyèdre d'Arnol'd et voile d'un cône simplicial: analogues du théorème de Lagrange. (English and French summaries) [The Arnol'd polyhedron and the sail of a simplicial cone: analogues of the Lagrange theorem] **94m:11081**
Loxton, J. H. *see* **Everest, G. R., 94g:11105**
Mitsuhiro, Takashi A combinatorial deformation of Dirichlet's class number formula. (English summary) **94f:11116**
Oukhaba, H. Groups of elliptic units in global function fields. **94a:11085**
Pethő, Attila Über kubische Ausnahmeeinheiten. (German summary) [On cubic exceptional units] **94d:11017**
Pohst, Michael E. ★ Computational algebraic number theory. **94j:11132**
— *see also* **Buchmann, Johannes; et al., 94c:11125**
Roberson Ashford, Stella Dyadic ramification and quartic number fields. (English summary) **94j:11105**
von Schmettow, J. Graf *see* **Buchmann, Johannes; et al., 94c:11125**
Schwarz, Wolfgang Demjanenko matrix and 2-divisibility of class numbers. **94g:11095**
Stevenhagen, Peter The number of real quadratic fields having units of negative norm. (English summary) **94k:11120**
Thomas, Emery Solutions to certain families of Thue equations. (English summary) **94b:11028**

11R29 Class numbers, class groups, discriminants

Çalışalp, F. *see* **Develi, M. H., 94j:11110**
Cohen, Henri (*with* Martinet, Jacques) Heuristics on class groups: some good primes are not too good. (English summary) **94i:11087**
Costa, Antone A sequence of results on class number congruences. (English summary) **94d:11088**
Develi, M. H. (*with* Çalışalp, F.) Some criterions for the class number of a real quadratic field of R-D type to be one. (English summary) **94j:11110**
Geroldinger, Alfred Arithmetical characterizations of divisor class groups. II. **94a:11169**
Girstmair, Kurt On the l-divisibility of the relative class number of certain cyclic number fields. **94e:11115**
— The relative class numbers of imaginary cyclic fields of degrees 4, 6, 8, and 10. (English summary) **94a:11170**
Golubeva, E. P. Class numbers of real quadratic fields of discriminant $4p$. (Russian. Russian summary) **94f:11115**
Horie, Kuniaki On a ratio between relative class numbers. **94a:11171**
Kemp, Paula A. *see* **Mollin, R. A.; et al., 94m:11132**
Le, Mao Hua A Diophantine equation concerning the divisibility of the class number for some imaginary quadratic fields. (English summary) **94b:11111**
Louboutin, Stéphane Détermination des corps quartiques cycliques totalement imaginaires à groupes des classes d'idéaux d'exposant ≤ 2. (English and French summaries) [Determination of all imaginary cyclic quartic fields with ideal class groups of exponent ≤ 2] **94g:11099**
— Calcul des nombres de classes relatifs: application aux corps octiques quaternioniques à multiplication complexe. (English and French summaries) [Computation of relative class numbers of CM-fields: application to octic quaternion CM-fields] **94j:11111**
— On the class number one problem for nonnormal quartic CM-fields. (English summary) **94m:11130**
Martinet, Jacques *see* **Cohen, Henri, 94i:11087**
Mitsuhiro, Takashi A combinatorial deformation of Dirichlet's class number formula. (English summary) **94f:11116**
Mollin, R. A. Orders in quadratic fields. I. (English summary) **94b:11112**
— (*with* Zhang, Liang Cheng) Reduced ideals, the divisor function, continued fractions and class numbers of real quadratic fields. (English summary) **94m:11131**
— (*with* Zhang, Liang Cheng; Kemp, Paula A.) A lower bound for the class number of a real quadratic field of ERD type. (English summary) **94m:11132**
Nomura, Akito On the class numbers of certain Hilbert class fields. (English summary) **94e:11116**
Osada, Hiroyuki Note on the ideal class group of abelian number fields. **94a:11172**
Stevenhagen, Peter Divisibility by 2-powers of certain quadratic class numbers. (English summary) **94b:11113**
Yokoi, Hideo A note on class number one problem for real quadratic fields. **94e:11117**
Zhang, Liang Cheng *see* **Mollin, R. A., 94m:11131** *and* **94m:11132**

Items with secondary classifications in 11R29

Barrucand, Pierre (*with* Louboutin, Stéphane) Majoration et minoration du nombre de classes d'idéaux des corps réels purs de degré premier. (French summary) [Upper and lower bounds for the ideal class number of purely real fields of first degree] **94j:11113**
Bayazıt, Yıldırım (*with* İşcan, Hülya) The solution of the class number 5 problem. (English and Turkish summaries) **94d:11093**
(Berthier, T.) *see* **Gras, Georges, 94i:11091**
Buchmann, Johannes (*with* Pohst, Michael E.; von Schmettow, J. Graf) On unit groups and class groups of quartic fields of signature (2, 1). (English summary) **94c:11125**
Cánovas Orvay, Francisca Fundamental units in a family of cyclic cubic fields. (English summary) **94f:11110**
Chapman, Scott T. (*with* Smith, William W.) An analysis using the Zaks-Skula constant of element factorizations in Dedekind domains. (English summary) **94e:13037**
Choie, YoungJu Rational period functions, class numbers, and Diophantine equations. (English summary) **94c:11045**
Cohen, Henri (*with* Diaz y Diaz, F.; Olivier, M.) Calculs de nombres de classes et de régulateurs de corps quadratiques en temps sous-exponentiel. [Computation of class numbers and regulators of quadratic fields in subexponential time] **94m:11151**
Datskovsky, Boris A. A mean-value theorem for class numbers of quadratic extensions. **94m:11137**
Diaz y Diaz, F. *see* **Cohen, Henri; et al., 94m:11151**
Evertse, Jan-Hendrik (*with* Győry, Kálmán) Discriminants of decomposable forms. (English summary) **94k:11043**
Feng, Ke Qin Zeta function, class number and cyclotomic units of cyclotomic function fields. (English summary) **94d:11091**
Fouvry, Étienne (*with* Nair, Mohan; Tenenbaum, Gérald) L'ensemble exceptionnel dans la conjecture de Szpiro. (English and French summaries) [The exceptional set in Szpiro's conjecture] **94a:11076**
Fung, G. W. (*with* Williams, Hugh Cowie) Errata: "On the computation of a table of complex cubic fields with discriminant $D > -10^{6}$" [Math. Comp. **55** (1990), no. 191, 313–325; MR 90m:11155]. **94i:11106**
Gerth, Frank, III Some results on the capitulation problem for quadratic fields. **94e:11109**
Girstmair, Kurt On the cosets of the $2q$-power group in the unit group modulo p. (English summary) **94a:11165**
Gras, Georges Sur la structure des groupes de classes relatives. (English and French summaries) [On the structure of relative class groups] **94i:11091**
Győry, Kálmán *see* **Evertse, Jan-Hendrik, 94k:11043**
Halter-Koch, Franz Quadratische Ordnungen mit großer Klassenzahl. II. (English summary) [Quadratic orders with large class number. II] **94g:11091**
Hara, Yoshihito On calculation of $L_K(1, \chi)$ for some Hecke characters. **94j:11114**
Horie, Kuniaki On the exponents of ideal class groups of cyclotomic fields. **94a:11166**
İşcan, Hülya On class numbers of algebraic function fields defined by $y^2 = x^n - a$ over GF(p). (English and Turkish summaries) **94f:11121**
— *see also* **Karaali, Fitnat, 94d:11092** *and* **Bayazıt, Yıldırım, 94d:11093**
Jehanne, Arnaud Des extensions sextiques de Q de clôture galoisienne engendrée par deux corps cubiques linéairement disjoints. [Sextic extensions of Q with Galois closure generated by two linearly disjoint cubic fields] **94f:11112**
Karaali, Fitnat (*with* İşcan, Hülya) The solution of the class number 4 problem. (English and Turkish summaries) **94d:11092**
Katayama, Shigeru *see* **Katayama, Shin-ichi, 94e:11112**
Katayama, Shin-ichi (*with* Katayama, Shigeru) On certain real bicyclic biquadratic fields with class number one and two. (English summary) **94e:11112**
Kawachi, Mayumi (*with* Nakano, Shin) The 2-class groups of cubic fields and 2-descents on elliptic curves. (English summary) **94a:11077**
Kobayashi, Masaki On Ono's problem for quadratic fields. **94d:11084**
Kohnen, Winfried Class numbers, Jacobi forms and Siegel-Eisenstein series of weight 2 on $Sp_2(\mathbf{Z})$. **94d:11030**
Lan, Yi Zhong On number fields with an unramified abelian extension of degree 2^{n+2}. (English summary) **94b:11108**
Le, Mao Hua Two conjectures on simple real quadratic fields. (Chinese. Chinese summary) **94e:11110**
Lecacheux, Odile Courbes elliptiques et groupes de classes d'idéaux de corps quartiques. (English and French summaries) [Elliptic curves and ideal class groups of quartic fields] **94a:11080**
Leprévost, Franck Courbes modulaires et 11-rang de corps quadratiques. (English and French summaries) [Modular curves and 11-rank of quadratic fields] **94m:11073**
Louboutin, Stéphane Lower bounds for relative class numbers of CM-fields. **94d:11089**
— *see also* **Barrucand, Pierre, 94j:11113**
Mäki, Sirpa The conductor density of abelian number fields. **94b:11115**
Mollin, R. A. (*with* Williams, Hugh Cowie) A complete generalization of Yokoi's p-invariants. **94h:11101**
Nair, Mohan *see* **Fouvry, Étienne; et al., 94a:11076**
Nakano, Shin *see* **Kawachi, Mayumi, 94a:11077**
Okazaki, Ryotaro On an effective determination of a Shintani's decomposition of the cone $\mathbf{R}_+^n$. **94j:11117**
Olivier, M. *see* **Cohen, Henri; et al., 94m:11151**
Osada, Hiroyuki On the class-number of the maximal real subfield of a cyclotomic field. **94i:11085**
Pohst, Michael E. ★ Computational algebraic number theory. **94j:11132**
— *see also* **Buchmann, Johannes; et al., 94c:11125**
von Schmettow, J. Graf *see* **Buchmann, Johannes; et al., 94c:11125**
Schwarz, Wolfgang Demjanenko matrix and 2-divisibility of class numbers. **94g:11095**
Smith, William W. *see* **Chapman, Scott T., 94e:13037**
Stark, Harold M. Galois theory, algebraic number theory, and zeta functions. **94d:11079**
— Dirichlet's class-number formula revisited. **94a:11133**
Tenenbaum, Gérald *see* **Fouvry, Étienne; et al., 94a:11076**
Williams, Hugh Cowie *see* **Mollin, R. A., 94h:11101** *and* **Fung, G. W., 94i:11106**
Yamamura, Ken The determination of the imaginary abelian number fields with class number one. (English summary) **94g:11096**

11R32 Galois theory

Bilhan, M. A note on the characterization of ET-sets in global fields. **94i:11088**
Boston, Nigel Some cases of the Fontaine-Mazur conjecture. **94c:11108**
Greither, Cornelius ★ Cyclic Galois extensions of commutative rings. **94k:11121**
Komatsu, Kenzo (*with* Nodera, Takashi) On unramified Galois extensions of certain algebraic number fields. (English summary) **94i:11089**
Morton, Patrick (*with* Patel, Pratiksha) The Galois theory of periodic points of polynomial maps. **94i:11090**
Nodera, Takashi *see* **Komatsu, Kenzo, 94i:11089**
Patel, Pratiksha *see* **Morton, Patrick, 94i:11090**

Items with secondary classifications in 11R32

Barrera-Mora, Fernando (*with* Vélez, William Yslas) Some results on radical extensions. **94k:12006**
Buchmann, Johannes (*with* Ford, David; Pohst, Michael E.) Enumeration of quartic fields of small discriminant. (English summary) **94a:11164**
Crespo, Teresa Erratum: "Explicit construction of $\tilde{A}_n$ type fields" [J. Algebra **127** (1989), no. 2, 452–461; MR 91a:12006]. **94c:12005**
(Darmon, Henri) *see* **Serre, Jean-Pierre, 94d:12006**
Díaz y Díaz, F. *see* **Schwarz, A.; et al., 94i:11108**
Faddeev, D. K. *see* **Ishkhanov, V. V.; et al., 94g:12003**
Ford, David *see* **Buchmann, Johannes; et al., 94a:11164**

Ishkhanov, V. V. (*with* Lur'e, B. B.; Faddeev, D. K.) ★ Задача погружения в теории Галуа. (Russian) [The embedding problem in Galois theory] **94g:12003**
Ledet, Arne Is Whaples' theorem a group theoretical result? **94m:20065**
Leep, David B. (*with* Wadsworth, Adrian R.) The Hasse norm theorem mod squares. (English summary) **94b:11109**
Lochter, Manfred On equivalent number fields with special Galois groups. (English summary) **94j:11118**
Lur'e, B. B. *see* **Ishkhanov, V. V.; et al., 94g:12003**
Martinais, Dominique (*with* Schneps, Leila) Polynômes à groupe de Galois diédral. (French summary) [Polynomials with dihedral Galois group] **94e:12003**
Pohst, Michael E. *see* **Buchmann, Johannes; et al., 94a:11164** *and* **Schwarz, A.; et al., 94i:11108**
Schneps, Leila On cyclic field extensions of degree 8. (English summary) **94d:12004**
— *see also* **Martinais, Dominique, 94e:12003**
Schwarz, A. (*with* Pohst, Michael E.; Diaz y Diaz, F.) A table of quintic number fields. (English summary) **94i:11108**
Serre, Jean-Pierre ★ Topics in Galois theory. **94d:12006**
Stark, Harold M. Galois theory, algebraic number theory, and zeta functions. **94d:11079**
Vélez, William Yslas *see* **Barrera-Mora, Fernando, 94k:12006**
Wadsworth, Adrian R. *see* **Leep, David B., 94b:11109**

11R33 Integral representations related to algebraic numbers; Galois module structure of rings of integers [see also 20C10]

(Berthier, T.) *see* **Gras, Georges, 94i:11091**
Burns, David J. On the Galois structure of units in number fields. **94a:11173**
Fröhlich, Albrecht The genus class group. I. **94a:11174**
Gómez Ayala, Eugenio Jesús (*with* Schertz, Reinhard) Eine Bemerkung zur Galoismodulstruktur in Strahlklassenkörpern über imaginär-quadratischen Zahlkörpern. (English summary) [A remark on the Galois module-structure in ray class fields over quadratic imaginary number fields] **94a:11175**
Gras, Georges Sur la structure des groupes de classes relatives. (English and French summaries) [On the structure of relative class groups] **94i:11091**
Holland, David (*with* Wilson, S. M. J.) Fröhlich's and Chinburg's conjectures in the factorisability defect class group. **94f:11117**
Kostra, Juraj Correction to my paper: "On integral normal bases over intermediary fields" [Czechoslovak Math. J. **39(114)** (1989), no. 4, 622–626; MR 90j:11122]. **94a:11176**
Ritter, Jürgen (*with* Weiss, Alfred R.) Regulators and Galois stability. (English summary) **94g:11100**
Schertz, Reinhard *see* **Gómez Ayala, Eugenio Jesús, 94a:11175**
Shparlinskii, I. E. *see* **Stepanov, S. A., 94a:11177**
Stepanov, S. A. (*with* Shparlinskii, I. E.) On normal bases of algebraic number fields. (English summary) **94a:11177**
Taylor, M. J. The Galois module structure of certain arithmetic principal homogeneous spaces. **94a:11178**
Weiss, Alfred R. *see* **Ritter, Jürgen, 94g:11100**
Wilson, S. M. J. *see* **Holland, David, 94f:11117**

Items with secondary classifications in 11R33

Chinburg, Ted (*with* Erez, Boas) Equivariant Euler-Poincaré characteristics and tameness. (English summary) **94c:14015**
Erez, Boas *see* **Chinburg, Ted, 94c:14015**
Girstmair, Kurt On the trace of the ring of integers of an abelian number field. **94a:11167**

11R34 Galois cohomology [see also 12Gxx, 16H05, 19A31]

Kim, Jae Moon Cohomology groups of cyclotomic units. **94a:11179**
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11R42 Zeta functions and L-functions of number fields [see also 11M41, 19F27]

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11R54 Other algebras and orders, and their zeta and L-functions [see also 11S45, 16H05, 16Kxx]

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11R56 Adèle rings and groups

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11S31 Class field theory; p-adic formal groups [see also 14L05]

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Todd, Elizabeth J. Les représentations modérées de GL_N sur un corps local. (English and French summaries) [The tame representations of GL_N over a local field] **94k:22037**
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11S40 Zeta functions and L-functions [see also 11M41, 19F27]

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11S45 Algebras and orders, and their zeta functions [see also 11R52, 11R54, 16H05, 16Kxx]

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11S70 K-theory of local fields [see also 19Fxx]

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Benua, D. G. (*with* Vostokov, S. V.) Sur les représentations p-adiques des corps locaux multidimensionnels attachés aux groupes formels. [On the p-adic representations of multidimensional local fields associated with formal groups] **94c:11112**
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11S80 Other analytic theory (analogues of beta and gamma functions, p-adic integration, etc.)

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Boutabaa, Abdelbaki Applications de la théorie de Nevanlinna p-adique. (English summary) [Applications of p-adic Nevanlinna theory] **94f:11125**
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Bedocchi, Edmondo Fractions continues p-adiques: périodes de longueur paire. (Italian summary) [p-adic continued fractions: periods of even length] **94e:11128**
Bernstein, Daniel J. A noniterative 2-adic statement of the $3N+1$ conjecture. (English summary) **94h:11108**
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— (*with* Zabrodin, A. V.) Macdonald polynomials from Sklyanin algebras: a conceptual basis for the p-adics–quantum group connection. **94e:11129**
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Boja, N. p-adic pseudo-Riemannian manifolds. (Romanian summary) **94g:53052**
Freund, Peter G. O. On the quantum group-p-adics connection. (English summary) **94k:81115**
Khrennikov, A. Yu. Statistical interpretation of p-adic-valued quantum field theory. (Russian) **94h:11116**
— Discrete $\mathbf{Q}_p$-valued probabilities. (Russian) **94k:60002**
Missarov, M. D. Invariant manifolds of p-adic renormalization groups. (English summary) **94b:81079**
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Khrennikov, A. Yu. p-adic statistical models. (Russian) **94i:11110**
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Vladimirov, V. S. Spectral properties of p-adic pseudodifferential operators of Schrödinger type. (Russian. Russian summary) **94a:47088**

11Txx Finite fields and commutative rings (number-theoretic aspects)

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Niederreiter, Harald Recent advances in the theory of finite fields. **94c:11116**
Scheerhorn, Alfred ★ Darstellungen des algebraischen Abschlusses endlicher Körper und spur-kompatible Polynomfolgen. (German) [Presentation of the algebraic closure of finite fields and trace-compatible polynomial sequences] **94m:11143**
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Brawley, Joel V. (*with* Brown, David D.) Composed products and module polynomials over finite fields. (English summary) **94j:11123**
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— Special value set polynomials over finite fields. (English summary) **94a:11187**
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— (*with* Ridley, J. N.) Reciprocal sums over partitions and compositions. (English summary) **94g:11111**
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— Differenzenschemata und Darstellungspolynome für Restklassenabbildungen modulo m. (German summary) [Difference schemes and representation polynomials for residue class mappings modulo m] **94k:11022**

Chao, Chong-Yun Polynomials over finite fields which commute with a permutation polynomial. **94m:12004**

Fried, Michael D. (*with* Guralnick, Robert M.; Saxl, Jan) Schur covers and Carlitz's conjecture. (English summary) **94j:12007**

von zur Gathen, Joachim (*with* Shoup, Victor) Computing Frobenius maps and factoring polynomials. (English summary) **94d:12011**

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Lam, Maurice S. *see* **Komo, John J., 94d:94004**

Niederreiter, Harald A new efficient factorization algorithm for polynomials over small finite fields. (English summary) **94h:11112**

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11T23 Exponential sums

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Skorobogatov, A. N. Exponential sums, the geometry of hyperplane sections, and some Diophantine problems. (English summary) **94d:11060**

Wan, Da Qing Newton polygons of zeta functions and L functions. **94f:11074**

11T24 Other character sums and Gauss sums

Evans, Ronald J. Character sums over finite fields. (English summary) **94c:11118**

Greene, John Polynomial factorizations and character sum identities. **94e:11131**

Helversen-Pasotto, Anna Gamma-function and Gaussian-sum-function. **94j:11125**

Katz, Nicholas M. Estimates for Soto-Andrade sums. **94h:11109**

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Wolfmann, Jacques The number of solutions of certain diagonal equations over finite fields. (English summary) **94j:11055**

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Baum, Ulrich (*with* Shokrollahi, Mohammad Amin) An optimal algorithm for multiplication in $\mathbf{F}_{256}/\mathbf{F}_4$. (English summary) **94a:11191**

Chang, Yan Xun A property of primitive roots in a finite field. (Chinese. English and Chinese summaries) **94m:11146**

Cohen, Stephen D. (*with* Mullen, Gary L.) Primitive elements in finite fields and Costas arrays. (English summary) **94i:11100**

Geiselmann, Willi (*with* Gollmann, Dieter) Self-dual bases in $\mathbf{F}_{q^n}$. (English summary) **94g:11115**

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Scheerhorn, Alfred Leicht berechenbare Einbettungen für die Implementierung des algebraischen Abschlusses endlicher Körper. (German summary) [Easy-to-compute embeddings for the implementation of the algebraic closure of finite fields] **94d:11101**

Semaev, I. A. Normal selfadjoint bases of finite fields. (Russian. Russian summary) **94e:11132**

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Elia, Michele Some comments on the computation of nth roots in Z_N. (English summary) **94j:11130**

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11T55 Arithmetic theory of polynomial rings over finite fields

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— (*with* Cherly, Jørgen) Sommes de cubes dans l'anneau $\mathbf{F}_{2^k}[X]$. [Sums of cubes in the ring $\mathbf{F}_{2^k}[X]$] **94j:11126**

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Zhang, Qi Fan On the polynomial in several indeterminates which can be extended to permutation polynomial vectors over $\mathbf{Z}/p^l\mathbf{Z}$.

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Xing, Chao Ping Multiple Kummer extension and the number of prime divisors of degree one in function fields. (English summary) **94i:11093**

11T71 Algebraic coding theory; cryptography

Barg, A. M. Exponential sums and constrained error-correcting codes. (English summary) **94d:11102**

Katsman, G. L. (*with* Tsfasman, M. A.; Vlăduţ, Sergei G.) Spectra of linear codes and error probability of decoding. **94f:11130**

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Vanstone, Scott A. *see* **Koyama, Kenji; et al., 94e:94014**
van der Vlugt, Marcel The weight distribution of linear codes. (English summary) **94g:94038**
— *see also* **van der Geer, Gerard, 94k:11068**
Wolfmann, Jacques The number of solutions of certain diagonal equations over finite fields. (English summary) **94j:11055**
— Algebraic curves and varieties over finite fields and irreducible cyclic codes. (English summary) **94b:94025**
Yaghoobian, Tomik (*with* Blake, Ian F.) Hermitian codes as generalized Reed-Solomon codes. **94a:94010**
Yue, Dian Wu The structure of cyclotomic cosets and the applications. (Chinese. English summary) **94b:11120**
Živković, Miodrag A table of primitive binary polynomials. (English summary) **94d:11099**
— Table of primitive binary polynomials. II. (English summary) **94i:11099**

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11T99 None of the above, but in this section

Items with secondary classifications in 11T99

Bergelson, Vitaly (*with* Deuber, Walter A.; Hindman, N.) Rado's theorem for finite fields. **94e:05031**
Celniker, Nancy (*with* Poulos, Steven; Terras, Audrey; Trimble, Cindy; Velasquez, Elinor) Is there life on finite upper half planes? **94h:05055**
Deuber, Walter A. *see* **Bergelson, Vitaly; et al., 94e:05031**
Hindman, N. *see* **Bergelson, Vitaly; et al., 94e:05031**
Kuz'min, A. S. Lower bounds for the ranks of coordinate sequences of linear recurrence sequences over residue rings of integers modulo a prime power. (Russian) **94h:11009**
Minář, Ján (*with* Reis, C. M.) Trigonometry in finite fields. **94d:11100**
Poulos, Steven *see* **Celniker, Nancy; et al., 94h:05055**
Reis, C. M. *see* **Minář, Ján, 94d:11100**
Somer, Lawrence Periodicity properties of kth order linear recurrences with irreducible characteristic polynomial over a finite field. (English summary) **94c:11014**
Terras, Audrey *see* **Celniker, Nancy; et al., 94h:05055**
Trimble, Cindy *see* **Celniker, Nancy; et al., 94h:05055**
Turnwald, Gerhard Multiplicative subgroups of finite index in a division ring. (English summary) **94e:12002**
Velasquez, Elinor *see* **Celniker, Nancy; et al., 94h:05055**

11Uxx Connections with logic

11U05 Decidability [see also 03B25]

Burckel, S. Functional equations associated with congruential functions. (English summary) **94m:11147**
Korec, Ivan Definability of arithmetic operations in Pascal triangle modulo an integer divisible by two primes. (English summary) **94e:11138**
Shlapentokh, Alexandra A Diophantine definition of rational integers over some rings of algebraic numbers. (English summary) **94a:11195**
Videla, Carlos R. Hilbert's tenth problem for rational function fields in characteristic 2. **94b:11122**

Items with secondary classifications in 11U05

Bateman, Paul T. (*with* Jockusch, Carl G., Jr.; Woods, Alan R.) Decidability and undecidability of theories with a predicate for the primes. (English summary) **94g:03088**
(Davis, Martin D.) *see* **Matiyasevich, Yu. V., 94m:03002b**
(Hilbert, David[1]) *see* **Matiyasevich, Yu. V., 94m:03002a**
Jockusch, Carl G., Jr. *see* **Bateman, Paul T.; et al., 94g:03088**
Matiyasevich, Yu. V. ★ Десятая проблема Гильберта. (Russian. Russian summary) [Hilbert's tenth problem] **94m:03002a**
— ★ Hilbert's tenth problem. (English summary) **94m:03002b**
Shlapentokh, Alexandra Hilbert's tenth problem for rings of algebraic functions of characteristic 0. **94d:11018**
Sun, Zhi Wei A new relation-combining theorem and its application. (English summary) **94m:03069**
— J. P. Jones's work on Hilbert's tenth problem and related topics. (Chinese. English and Chinese summaries) **94j:03089**
Woods, Alan R. *see* **Bateman, Paul T.; et al., 94g:03088**

11U09 Model theory [see also 03Cxx]

Items with secondary classifications in 11U09

Hájek, Petr (*with* Pudlák, Pavel) ★ Metamathematics of first-order arithmetic. **94d:03001**
Korec, Ivan Definability of arithmetic operations in Pascal triangle modulo an integer divisible by two primes. (English summary) **94e:11138**
Otero, Margarita Generic models of the theory of normal Z-rings. (English summary) **94d:03070**
Pudlák, Pavel *see* **Hájek, Petr, 94d:03001**

11U10 Nonstandard arithmetic [see also 03H15]

Gaunet, Marie-Laure *see* **Paysant-Le Roux, Roger; et al., 94c:11122**
Hellegouarch, Yves *see* **Paysant-Le Roux, Roger; et al., 94c:11122**
Paysant-Le Roux, Roger (*with* Hellegouarch, Yves; Gaunet, Marie-Laure) Sur certaines fractions continues non standard. (English and French summaries) [On certain nonstandard continued fractions] **94c:11122**

Items with secondary classifications in 11U10

Hájek, Petr (*with* Pudlák, Pavel) ★ Metamathematics of first-order arithmetic. **94d:03001**
Pudlák, Pavel *see* **Hájek, Petr, 94d:03001**
Smith, Stuart T. Quadratic residues and $x^3 + y^3 = z^3$ in models of IE_1 and IE_2. (English summary) **94j:03116**

11U99 None of the above, but in this section

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Andenæs, Per Roar Variations on the fifth Peano axiom. (Norwegian. English summary) **94i:03016**
Baxa, Christoph A note on Diophantine representations. **94a:11035**
Hanine, El Mostafa Équations diophantiennes modulo p^2. [Diophantine equations modulo p^2] **94c:11028**
Heintz, Joos (*with* Roy, Marie-Françoise; Solernó, Pablo) On the theoretical and practical complexity of the existential theory of reals. (English summary) **94h:03076**
Roy, Marie-Françoise *see* **Heintz, Joos; et al., 94h:03076**
Solernó, Pablo *see* **Heintz, Joos; et al., 94h:03076**
Spinas, Otmar Iterated forcing in quadratic form theory. (English summary) **94k:03068**

11Yxx Computational number theory [see also 11-04]

Giblin, Peter ★ Primes and programming. (English summary) **94j:11128**

11Y05 Factorization

Bach, Eric (*with* Driscoll, James; Shallit, Jeffrey) Factor refinement. (English summary) **94m:11148**
Coppersmith, Don Modifications to the number field sieve. (English summary) **94h:11111**
Driscoll, James *see* **Bach, Eric; et al., 94m:11148**
Hahn, Sang-Geun (*with* Oh, Yoon Yong) Factorizations of $17^n - 1$ for $n \leq 78$. (English summary) **94b:11123**
Huber, Klaus Some considerations concerning the selection of RSA moduli. (English summary) (*see* **94b:94003**)

Lenstra, A. K. (*with* Lenstra, Hendrik W., Jr.; Manasse, Mark S.; Pollard, J. M.) Corrigendum: "The factorization of the ninth Fermat number" [Math. Comp. **61** (1993), no. 203, 319–349; MR 93k:11116]. **Lenstra, Hendrik W., Jr.** *see* **Lenstra, A. K.; et al.** **Manasse, Mark S.** *see* **Lenstra, A. K.; et al.** **Oh, Yoon Yong** *see* **Hahn, Sang-Geun, 94b:11123** **Pollard, J. M.** *see* **Lenstra, A. K.; et al.** **Schnorr, Claus-Peter** Factoring integers and computing discrete logarithms via Diophantine approximation. (English summary) (*see* **94b:94003**) — Factoring integers and computing discrete logarithms via Diophantine approximation. (English summary) **94k:11131** **Shallit, Jeffrey** *see* **Bach, Eric; et al., 94m:11148** **Trujillo S., Carlos Alberto** Elliptic curves and algorithms in number theory: factorization. (Spanish. Spanish summary) **94m:11149** **Wagstaff, Samuel S., Jr.** Computing Euclid's primes. **94e:11139**

Items with secondary classifications in 11Y05

Crandall, Richard E. (*with* Fagin, Barry) Discrete weighted transforms and large-integer arithmetic. (English summary) **94c:11123** **Fagin, Barry** *see* **Crandall, Richard E., 94c:11123** **Hu, Inchi** (*with* Venkatesh, Santosh S.) On the minimum expected duration of a coin tossing game. (English summary) **94b:90115** **Lenstra, Hendrik W., Jr.** (*with* Pila, J.; Pomerance, Carl) A hyperelliptic smoothness test. I. (English summary) **94m:11107** **Morain, François** Building cyclic elliptic curves modulo large primes. (English summary) (*see* **94b:94003**) **Pila, J.** *see* **Lenstra, Hendrik W., Jr.; et al., 94m:11107** **Pomerance, Carl** *see* **Lenstra, Hendrik W., Jr.; et al., 94m:11107** **Venkatesh, Santosh S.** *see* **Hu, Inchi, 94b:90115** **Yan, Song Y.** Simple parallel algorithms for primality testing and integer factorization. (English summary) **94b:11125**

11Y11 Primality

Crandall, Richard E. (*with* Fagin, Barry) Discrete weighted transforms and large-integer arithmetic. (English summary) **94c:11123** **Damgård, Ivan** (*with* Landrock, Peter; Pomerance, Carl) Average case error estimates for the strong probable prime test. (English summary) **94b:11124** **Duparc, H. J. A.** The Lucas primality test. (Dutch) **94i:11103** **Fagin, Barry** *see* **Crandall, Richard E., 94c:11123** **Kaup, Burchard** Einfache Primtests. (German summary) [Simple primality tests] **94i:11104** **Landrock, Peter** *see* **Damgård, Ivan; et al., 94b:11124** **Malm, Donald E. G.** A graph of primes. **94k:11132** **Müller, Helmut** Primzahltests und elliptische Kurven: $10^{99} + 289$ ist prim. [Primality testing and elliptic curves: $10^{99} + 289$ is prime] **94j:11129** **Müller, Winfried B.** (*with* Oswald, Alan) Dickson pseudoprimes and primality testing. (English summary) (*see* **94b:94003**) **Oswald, Alan** *see* **Müller, Winfried B., (94b:94003)** **Peralta, René** (*with* Shoup, Victor) Primality testing with fewer random bits. (English summary) **94m:11150** **Pomerance, Carl** *see* **Damgård, Ivan; et al., 94b:11124** **Shoup, Victor** *see* **Peralta, René, 94m:11150** **Yan, Song Y.** Simple parallel algorithms for primality testing and integer factorization. (English summary) **94b:11125**

Items with secondary classifications in 11Y11

(Albis González, V. S.) *see* **Ribenboim, Paulo, 94j:11008** **Bosma, Wieb** Explicit primality criteria for $h \cdot 2^k \pm 1$. (English summary) **94c:11005** **Deshouillers, Jean-Marc** (*with* Granville, Andrew; Narkiewicz, Władysław; Pomerance, Carl) An upper bound in Goldbach's problem. (English summary) **94b:11101** **Granville, Andrew** *see* **Deshouillers, Jean-Marc; et al., 94b:11101** **Jaeschke, Gerhard** On strong pseudoprimes to several bases. (English summary) **94d:11004** **Marko, František** Polynomials of the form $g(x^k)$ and pseudoprimes with respect to linear recurring sequences. (English summary) **94a:11031** **Metsänkylä, Tauno** Cyclotomic fields, irregular primes, and supercomputing. (Finnish. English summary) **94g:11094** **Narkiewicz, Władysław** *see* **Deshouillers, Jean-Marc; et al., 94b:11101** **Pomerance, Carl** *see* **Deshouillers, Jean-Marc; et al., 94b:11101** **Ribenboim, Paulo** Prime number records. (Italian. English and Italian summaries) **94g:11001** — Prime number records. (Spanish) **94j:11008** **Schlafly, Aaron** (*with* Wagon, Stan) Carmichael's conjecture on the Euler function is valid below $10^{10,000,000}$. (English summary) **94i:11008** **Wagon, Stan** *see* **Schlafly, Aaron, 94i:11008**

11Y16 Algorithms; complexity [see also 68Q25]

Adleman, Leonard M. (*with* DeMarrais, Jonathan) A subexponential algorithm for discrete logarithms over all finite fields. **94e:11140** **Bach, Eric** (*with* Sorenson, Jonathan) Sieve algorithms for perfect power testing. (English summary) **94d:11103** **Coppersmith, Don** Solving homogeneous linear equations over GF(2) via block Wiedemann algorithm. (English summary) **94c:11124** **Coster, Matthijs J.** (*with* Joux, Antoine; LaMacchia, Brian A.; Odlyzko, Andrew M.; Schnorr, Claus-Peter; Stern, Jacques) Improved low-density subset sum algorithms. (English summary) **94e:11141** **DeMarrais, Jonathan** *see* **Adleman, Leonard M., 94e:11140** **Dumas, Ph.** Algebraic aspects of B-regular series. (English summary) **94k:11133** **Elia, Michele** Some comments on the computation of nth roots in Z_N. (English summary) **94j:11130** **Frandsen, Gudmund Skovbjerg** *see* **Sturtivant, Carl, 94e:11144** **Gordon, Daniel M.** Discrete logarithms in GF(p) using the number field sieve. (English summary) **94d:11104** **Itoh, Toshiya** *see* **Shizuya, Hiroki; et al., (94b:94003)** **Joux, Antoine** *see* **Coster, Matthijs J.; et al., 94e:11141** **Kaltofen, Erich** Analysis of Coppersmith's block Wiedemann algorithm for the parallel solution of sparse linear systems. **94k:11134** **Karpiński, Marek** (*with* Luby, Michael) Approximating the number of zeroes of a GF[2] polynomial. (English summary) **94e:11142** **Lafferty, John D.** (*with* Rockmore, Daniel N.) Fast Fourier analysis for SL_2 over a finite field and related numerical experiments. (English summary) **94f:11131** **LaMacchia, Brian A.** *see* **Coster, Matthijs J.; et al., 94e:11141** **Luby, Michael** *see* **Karpiński, Marek, 94e:11142** **Niederreiter, Harald** A new efficient factorization algorithm for polynomials over small finite fields. (English summary) **94h:11112** **Odlyzko, Andrew M.** *see* **Coster, Matthijs J.; et al., 94e:11141** **Rockmore, Daniel N.** *see* **Lafferty, John D., 94f:11131** **Rónyai, Lajos** Algorithmic properties of maximal orders in simple algebras over **Q**. (English summary) **94e:11143** **Sakurai, Kouichi** *see* **Shizuya, Hiroki; et al., (94b:94003)** **Schnorr, Claus-Peter** *see* **Coster, Matthijs J.; et al., 94e:11141** **Shizuya, Hiroki** (*with* Itoh, Toshiya; Sakurai, Kouichi) On the complexity of hyperelliptic discrete logarithm problem. (English summary) (*see* **94b:94003**) **Shokrollahi, Mohammad Amin** Efficient randomized generation of optimal algorithms for multiplication in certain finite fields. (English summary) **94g:11116** **Sorenson, Jonathan** Two fast GCD algorithms. (English summary) **94k:11135** — *see also* **Bach, Eric, 94d:11103** **Stern, Jacques** *see* **Coster, Matthijs J.; et al., 94e:11141** **Sturtivant, Carl** (*with* Frandsen, Gudmund Skovbjerg) The computational efficacy of finite-field arithmetic. (English summary) **94e:11144**

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Baum, Ulrich (*with* Shokrollahi, Mohammad Amin) An optimal algorithm for multiplication in F_{256}/F_4. (English summary) **94a:11191** **Blake, Ian F.** (*with* Gao, Xu Hong; Mullin, Ronald C.) Explicit factorization of $x^{2^k} + 1$ over F_p with prime $p \equiv 3 \bmod 4$. (English summary) **94f:11128** **Brunner, Hannes** (*with* Curiger, Andreas; Hofstetter, Max) On computing multiplicative inverses in GF(2^m). (English summary) **94j:68093** **Chen, Shyan S.** *see* **Tsai, Jason Sheng Horng; et al., 94b:93076** **Coppersmith, Don** Solving linear equations over GF(2): block Lanczos algorithm. (English summary) **94i:65044** **Curiger, Andreas** *see* **Brunner, Hannes; et al., 94j:68093** **Daudé, Hervé** (*with* Vallée, Brigitte) An upper bound on the average number of iterations of the LLL algorithm. (English summary) **94m:11079** **Deshouillers, Jean-Marc** (*with* Dress, François) Numerical results for sums of five and seven biquadrates and consequences for sums of 19 biquadrates. (English summary) **94c:11096** **Dress, François** *see* **Deshouillers, Jean-Marc, 94c:11096** **Feigenbaum, Joan** (*with* Lagarias, Jeffrey C.) Probabilistic algorithms for speedup. (English summary) (*see* **94c:68097**) **Fleischmann, Peter** Connections between the algorithms of Berlekamp and Niederreiter for factoring polynomials over F_q. (English summary) **94f:11129** **Gao, Xu Hong** *see* **Blake, Ian F.; et al., 94f:11128** **von zur Gathen, Joachim** Efficient and optimal exponentiation in finite fields. **94a:68061** — (*with* Shoup, Victor) Computing Frobenius maps and factoring polynomials. (English summary) **94d:12011** **Göttfert, Rainer** An acceleration of the Niederreiter factorization algorithm in characteristic 2. (English summary) **94g:11110** **Hofstetter, Max** *see* **Brunner, Hannes; et al., 94j:68093** **Joichi, Jim** (*with* Stanton, Dennis) An algorithmic involution for $p(n)$. (English summary) **94i:11081** **Lagarias, Jeffrey C.** *see* **Feigenbaum, Joan, (94c:68097)** **Langemyr, Lars** Algorithms for a multiple algebraic extension. II. (English summary) **94e:12009** **Mullin, Ronald C.** *see* **Blake, Ian F.; et al., 94f:11128** **Niederreiter, Harald** Factoring polynomials over finite fields using differential equations and normal bases. (English summary) **94g:11113** **Petry, Frederick E.** (*with* Srinivasan, Padmini) Division techniques for integers of the form $2^n \pm 1$. (English summary) **94m:68009** **Posch, K. C.** (*with* Posch, R.) Base extension using a convolution sum in residue number systems. (English and German summaries) **94e:68024** **Posch, R.** *see* **Posch, K. C., 94e:68024** **Rónyai, Lajos** Galois groups and factoring polynomials over finite fields. **94a:68055** **Shieh, Leang San** *see* **Tsai, Jason Sheng Horng; et al., 94b:93076** **Shokrollahi, Mohammad Amin** *see* **Baum, Ulrich, 94a:11191** **Shoup, Victor** *see* **von zur Gathen, Joachim, 94d:12011** **Shparlinskii, I. E.** ★ Computational and algorithmic problems in finite fields. (English summary) **94j:11122** — Finding irreducible and primitive polynomials. (English summary) **94i:11098** **Srinivasan, Padmini** *see* **Petry, Frederick E., 94m:68009** **Stanton, Dennis** *see* **Joichi, Jim, 94i:11081** **Tsai, Jason Sheng Horng** (*with* Chen, Shyan S.; Shieh, Leang San) Generalized matrix Euclidean algorithms for solving Diophantine equations and associated problems. (English summary) **94b:93076** **Vallée, Brigitte** *see* **Daudé, Hervé, 94m:11079**

11Y35 Analytic computations

Borwein, Peter B. (*with* Dykshoorn, Willem) An interesting infinite product. **94j:11131** **Dykshoorn, Willem** *see* **Borwein, Peter B., 94j:11131**

Fermigier, Stéfane Zéros des fonctions L de courbes elliptiques. (English and French summaries) [Zeros of L-functions of elliptic curves] **94b:11126**
Karatsuba, E. A. Fast calculation of $\zeta(3)$. (Russian. Russian summary) **94e:11145**

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Almkvist, Gert A rather exact formula for the number of plane partitions. **94b:11103**
Arenstorf, R. F. (*with* Brewer, L. L.) A study of the motion of zeros of the Epstein zeta function associated to $m^2 + y^2n^2$ as y varies from 1 to $\sqrt{6}$. (English summary) **94i:11029**
Arno, S. *see* **Hejhal, Dennis A., 94a:11062**
Brewer, L. L. *see* **Arenstorf, R. F., 94i:11029**
Hejhal, Dennis A. (*with* Arno, S.) On Fourier coefficients of Maass waveforms for PSL(2, **Z**). (English summary) **94a:11062**
Moree, Pieter Bertrand's postulate for primes in arithmetical progressions. (English summary) **94f:11089**
Norfolk, T. S. (*with* Ruttan, Arden; Varga, Richard S.) A lower bound for the de Bruijn-Newman constant Λ. II. (English summary) **94k:30062**
Rumely, Robert Numerical computations concerning the ERH. (English summary) **94b:11085**
Ruttan, Arden *see* **Norfolk, T. S.; et al., 94k:30062**
Sinisalo, Matti K. Checking the Goldbach conjecture up to $4 \cdot 10^{11}$. (English summary) **94a:11157**
Varga, Richard S. *see* **Norfolk, T. S.; et al., 94k:30062**

11Y40 Algebraic number theory computations

Buchmann, Johannes (*with* Pohst, Michael E.; von Schmettow, J. Graf) On unit groups and class groups of quartic fields of signature (2, 1). (English summary) **94c:11125**
Cohen, Henri ★ A course in computational algebraic number theory. (English summary) **94i:11105**
— (*with* Diaz y Diaz, F.; Olivier, M.) Calculs de nombres de classes et de régulateurs de corps quadratiques en temps sous-exponentiel. [Computation of class numbers and regulators of quadratic fields in subexponential time] **94m:11151**
Diaz y Diaz, F. *see* **Schwarz, A.; et al., 94i:11108** *and* **Cohen, Henri; et al., 94m:11151**
Fung, G. W. (*with* Williams, Hugh Cowie) Errata: "On the computation of a table of complex cubic fields with discriminant $D > -10^{6}$" [Math. Comp. **55** (1990), no. 191, 313–325; MR 90m:11155]. **94i:11106**
Ge, Guoqiang Recognizing units in number fields. (English summary) **94i:11107**
Olivier, M. *see* **Cohen, Henri; et al., 94m:11151**
Pohst, Michael E. ★ Computational algebraic number theory. **94j:11132**
— *see also* **Buchmann, Johannes; et al., 94c:11125** *and* **Schwarz, A.; et al., 94i:11108**
von Schmettow, J. Graf *see* **Buchmann, Johannes; et al., 94c:11125**
Schwarz, A. (*with* Pohst, Michael E.; Diaz y Diaz, F.) A table of quintic number fields. (English summary) **94i:11108**
Williams, Hugh Cowie *see* **Fung, G. W., 94i:11106**

Items with secondary classifications in 11Y40

(Berthier, T.) *see* **Gras, Georges, 94i:11091**
Cikánek, Petr A special extension of Wieferich's criterion. (English summary) **94g:11023**
Cohen, Henri (*with* Martinet, Jacques) Heuristics on class groups: some good primes are not too good. (English summary) **94i:11087**
Coppersmith, Don Modifications to the number field sieve. (English summary) **94h:11111**
Deutsch, Jesse Ira Identities arising from Hecke transformations of modular forms over $\mathbf{Q}(\sqrt{2})$ and $\mathbf{Q}(\sqrt{3})$. (English summary) **94e:11047**
Ernvall, R. (*with* Metsänkylä, Tauno) Computation of the zeros of p-adic L-functions. II. (English summary) **94e:11125**
Girstmair, Kurt On the l-divisibility of the relative class number of certain cyclic number fields. **94e:11115**
— The relative class numbers of imaginary cyclic fields of degrees 4, 6, 8, and 10. (English summary) **94a:11170**
Gras, Georges Sur la structure des groupes de classes relatives. (English and French summaries) [On the structure of relative class groups] **94i:11091**
Lenstra, A. K. (*with* Lenstra, Hendrik W., Jr.; Manasse, Mark S.; Pollard, J. M.) Corrigendum: "The factorization of the ninth Fermat number" [Math. Comp. **61** (1993), no. 203, 319–349; MR 93k:11116].
Lenstra, Hendrik W., Jr. *see* **Lenstra, A. K.; et al.**
Leprévost, Franck Courbes modulaires et 11-rang de corps quadratiques. (English and French summaries) [Modular curves and 11-rank of quadratic fields] **94m:11073**
Louboutin, Stéphane Calcul des nombres de classes relatifs: application aux corps octiques quaternioniques à multiplication complexe. (English and French summaries) [Computation of relative class numbers of CM-fields: application to octic quaternion CM-fields] **94j:11111**
Manasse, Mark S. *see* **Lenstra, A. K.; et al.**
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Metsänkylä, Tauno Cyclotomic fields, irregular primes, and supercomputing. (Finnish. English summary) **94g:11094**
— *see also* **Ernvall, R., 94e:11125**
Mollin, R. A. (*with* Williams, Hugh Cowie) Quadratic residue covers for certain real quadratic fields. (English summary) **94g:11092**
Pollard, J. M. *see* **Lenstra, A. K.; et al.**
Stevenhagen, Peter The number of real quadratic fields having units of negative norm. (English summary) **94k:11120**
Williams, Hugh Cowie *see* **Mollin, R. A., 94g:11092**

11Y50 Computer solution of Diophantine equations

Heath-Brown, D. R. (*with* Lioen, W. M.; te Riele, H. J. J.) On solving the Diophantine equation $x^3 + y^3 + z^3 = k$ on a vector computer. (English summary) **94f:11132**
Korec, Ivan Lower bounds for perfect rational cuboids. (English summary) **94a:11196**
Lioen, W. M. *see* **Heath-Brown, D. R.; et al., 94f:11132**
te Riele, H. J. J. *see* **Heath-Brown, D. R.; et al., 94f:11132**

Items with secondary classifications in 11Y50

Lippok, Frank On the representation of 1 by binary cubic forms of positive discriminant. (English summary) **94h:11029**
Moree, Pieter (*with* te Riele, H. J. J.; Urbanowicz, Jerzy) Divisibility properties of integers x, k satisfying $1^k + \cdots + (x-1)^k = x^k$. (English summary) **94m:11041**
Noda, Kazunari (*with* Wada, Hideo) All congruent numbers less than 10 000. **94e:11064**
te Riele, H. J. J. *see* **Moree, Pieter; et al., 94m:11041**
Tzanakis, Nikos Explicit solution of a class of quartic Thue equations. **94e:11022**
Urbanowicz, Jerzy *see* **Moree, Pieter; et al., 94m:11041**
Wada, Hideo *see* **Noda, Kazunari, 94e:11064**

11Y55 Calculation of integer sequences

Zhang, Zhen Xiang Finding finite B_2-sequences with larger $m - a_m^{1/2}$. (English summary) **94i:11109**

Items with secondary classifications in 11Y55

Eliahou, Shalom The $3x + 1$ problem: new lower bounds on nontrivial cycle lengths. (English summary) **94h:11017**
Moews, David (*with* Moews, Paul C.) A search for aliquot cycles and amicable pairs. (English summary) **94a:11198**
Moews, Paul C. *see* **Moews, David, 94a:11198**

11Y60 Evaluation of constants

Borwein, Jonathan M. (*with* Borwein, Peter B.) Class number three Ramanujan type series for $1/\pi$. (English summary) **94h:11113**
Borwein, Peter B. *see* **Borwein, Jonathan M., 94h:11113**
DeTemple, Duane W. A quicker convergence to Euler's constant. **94e:11146**
Killingbergtrø, Hans Georg (*with* Kirkebø, Carl Peter) A new (?) formula for computing γ. (Norwegian. English summary) **94g:11117**
Kirkebø, Carl Peter *see* **Killingbergtrø, Hans Georg, 94g:11117**
Krämer, Walter Stephan Numerische Berechnung von Schranken für π. [Numerical computation of bounds for π] **94e:11147**
Kukhtin, V. V. (*with* Shramko, O. V.) Analogues of the Euler constant for two- and three-dimensional spaces. (Ukrainian. English and Russian summaries) **94m:11152**
Shanks, Daniel Improving an approximation for pi. **94a:11197**
Shramko, O. V. *see* **Kukhtin, V. V., 94m:11152**

Items with secondary classifications in 11Y60

Akiyama, Shigeki A new type of inclusion exclusion principle for sequences and asymptotic formulas for $\zeta(k)$. (English summary) **94k:11027**
Borwein, Peter B. (*with* Dykshoorn, Willem) An interesting infinite product. **94j:11131**
Chudnovsky, D. V. (*with* Chudnovsky, G. V.) Hypergeometric and modular function identities, and new rational approximations to and continued fraction expansions of classical constants and functions. **94f:11063**
Chudnovsky, G. V. *see* **Chudnovsky, D. V., 94f:11063**
Dykshoorn, Willem *see* **Borwein, Peter B., 94j:11131**
de Faria Campos, Edison (*with* Sheik V., Ali) New approximations for e. (Spanish. Spanish summary) **94b:40001**
Sheik V., Ali *see* **de Faria Campos, Edison, 94b:40001**
Williams, Kenneth S. *see* **Zhang, Nan Yue, 94m:11099**
Zhang, Nan Yue (*with* Williams, Kenneth S.) Some series representations of $\zeta(2n + 1)$. **94m:11099**

11Y65 Continued fraction calculations

MacLeod, Allan J. High-accuracy numerical values in the Gauss-Kuz'min continued fraction problem. (English summary) **94h:11114**

Items with secondary classifications in 11Y65

van der Blij, F. Well-known real numbers. (Dutch) **94j:11001**
Browkin, J. (*with* Brzeziński, Juliusz) Some remarks on the abc-conjecture. (English summary) **94g:11021**
Brzeziński, Juliusz *see* **Browkin, J., 94g:11021**

11Y70 Values of arithmetic functions; tables

Moews, David (*with* Moews, Paul C.) A search for aliquot cycles and amicable pairs. (English summary) **94a:11198**
Moews, Paul C. *see* **Moews, David, 94a:11198**
Neuts, Marcel F. On computing ratios of factorials. **94e:11148**

Items with secondary classifications in 11Y70

Živković, Miodrag A table of primitive binary polynomials. (English summary) **94d:11099**
— Table of primitive binary polynomials. II. (English summary) **94i:11099**

Items listed otherwise than by author

Tables:
Primitive binary polynomials *see* **Živković, Miodrag, 94d:11099** *and* **94i:11099**

11Y99 None of the above, but in this section

Palmore, Julian A relation between Newton's method and successive approximations for quadratic irrationals. **94j:11133**

Items with secondary classifications in 11Y99

Bachoc, Christine (*with* Batut, Christian) Étude algorithmique de réseaux construits avec la forme trace. (English and French summaries) [Algorithmic study of lattices constructed using the trace form] **94c:11056**

Batut, Christian *see* **Bachoc, Christine, 94c:11056**
Cohen, Stephen D. (*with* Mullen, Gary L.) Primitive elements in finite fields and Costas arrays. (English summary) **94i:11100**
Jackson, T. H. *see* **Yan, Song Y., 94m:11012**
Mullen, Gary L. *see* **Cohen, Stephen D., 94i:11100**
Yan, Song Y. (*with* Jackson, T. H.) A new large amicable pair. (English summary) **94m:11012**

11Z50 Miscellaneous applications of number theory

Brekke, Lee (*with* Freund, Peter G. O.) p-adic numbers in physics. (English summary) **94h:11115**
Dotson, William (*with* Norwood, Frederick Hudson; Taylor, Charles) Fiber optics and Fibonacci. **94e:11149**
Freund, Peter G. O. 2-d adelic strings. **94d:11105**
— *see also* **Brekke, Lee, 94h:11115**
Guo, Quan Lin Application of the generalized Möbius inversion formula to the computation of pairwise interactions in crystals. (Chinese. English and Chinese summaries) **94d:11106**
Khrennikov, A. Yu. Statistical interpretation of p-adic-valued quantum field theory. (Russian) **94h:11116**
— p-adic statistical models. (Russian) **94i:11110**
McIlroy, M. Douglas Number theory in computer graphics. (English summary) **94a:11199**
Norwood, Frederick Hudson *see* **Dotson, William; et al., 94e:11149**
Taylor, Charles *see* **Dotson, William; et al., 94e:11149**

Items with secondary classifications in 11Z50

Actor, Alfred Arthur Zeta function resummation of spectral functions. (English summary) **94f:11083**
Allen, Scott (*with* Pathria, R. K.) On the conjectures of Henkel and Weston. (English summary) **94k:11091**
Anderson, Arlen Unitary equivalence of the metric and holonomy formulations of $(2+1)$-dimensional quantum gravity on the torus. (English summary) **94d:81159**
Andrews, George E. The reasonable and unreasonable effectiveness of number theory in statistical mechanics. **94c:82021**
Arrowsmith, David K. (*with* Vivaldi, F.) Some p-adic representations of the Smale horseshoe. (English summary) **94c:58054**
Avishai, Yshai (*with* Berend, Daniel) Trace maps for arbitrary substitution sequences. (English summary) **94h:82004**
Berend, Daniel *see* **Avishai, Yshai, 94h:82004**
Bleher, Pavel M. (*with* Dyson, Freeman J.; Lebowitz, Joel L.) Non-Gaussian energy level statistics for some integrable systems. (English summary) **94f:81027**
Broom, M. (*with* Cannings, C.; Vickers, G. T.) On the number of local maxima of a constrained quadratic form. (English summary) **94m:92004**
Brown, David P. On convergence and limit cycles in digital filters in integer number systems. (English summary) **94d:94001**
Cannings, C. *see* **Broom, M.; et al., 94m:92004**
Chen, Nan Xian *see* **Li, Ming Chu; et al., 94f:81189**
Christol, Gilles p-adic numbers and ultrametricity. **94f:11126**
Cohen, Graeme L. On relatively prime numbers and oil drops. (English summary) **94h:11083**
Deutsch, David (*with* Jozsa, Richard) Rapid solution of problems by quantum computation. (English summary) **94d:81011**
Doi, Shinji On periodic orbits of trapezoid maps. (English summary) **94e:58106**
Dragović, Branko G. On p-adic aspects of some perturbation series. (English and Russian summaries) **94g:81141**
Dyson, Freeman J. *see* **Bleher, Pavel M.; et al., 94f:81027**
Eholzer, W. Fusion algebras induced by representations of the modular group. (English summary) **94f:81144**
Fraenkel, Aviezri S. Iterated floor function, algebraic numbers, discrete chaos, Beatty subsequences, semigroups. **94d:11011**
Freund, Peter G. O. On the quantum group-p-adics connection. (English summary) **94k:81115**
— p-adics and q-deformations. **94g:11108**
Huang, Mei Chun *see* **Xie, Qian, 94k:82114**
Huzino, Seiiti (*with* Togashi, Akira) Experimental results on an iteration scheme of modular type of higher order n. (English summary) **94i:58061b**
— *see also* **Togashi, Akira, 94i:58061a**
Joyce, G. S. Asymptotic behaviour of rigid-rotor partition functions. (English summary) **94e:82003**
Jozsa, Richard *see* **Deutsch, David, 94d:81011**
Kaneko, Masanobu (*with* Odagaki, Takashi) Self-similarity in a class of quadratic-quasiperiodic chains. (English summary) **94h:11018**
Khrennikov, A. Yu. Gauge connection between real and non-Archimedean structures of space-time. **94g:81006**
Knauf, Andreas On a ferromagnetic spin chain. (English summary) **94d:82011**
Kochubei, A. N. The differentiation operator on subsets of the field of p-adic numbers. (Russian. Russian summary) **94f:11127**
Kukhtin, V. V. (*with* Shramko, O. V.) Analogues of the Euler constant for two- and three-dimensional spaces. (Ukrainian. English and Russian summaries) **94m:11152**
Kuniba, Atsuo (*with* Nakanishi, Tomoki; Suzuki, Junji) Characters in conformal field theories from thermodynamic Bethe ansatz. (English summary) **94j:81235**
— Thermodynamics of the $U_q(X_\ell^{(1)})$ Bethe ansatz system with q a root of unity. (English summary) **94b:82013**
Lebowitz, Joel L. *see* **Bleher, Pavel M.; et al., 94f:81027**
Li, Ming Chu (*with* Liu, Shou Jun; Chen, Nan Xian) Modified Möbius inversion transform and phonon dispersion relations for copper. (English summary) **94f:81189**
Liu, Shou Jun *see* **Li, Ming Chu; et al., 94f:81189**
Lötken, C. A. Global phase diagrams for charge transport in two dimensions. (English summary) **94d:82023**
Mendès France, Michel (*with* Tenenbaum, Gérald) A one-dimensional model with phase transition. (English summary) **94g:82017**
Nakanishi, Tomoki *see* **Kuniba, Atsuo; et al., 94j:81235**
Odagaki, Takashi *see* **Kaneko, Masanobu, 94h:11018**
Pathria, R. K. *see* **Allen, Scott, 94k:11091**
Ruelle, Ph. (*with* Thiran, E.; Weyers, J.) Implications of an arithmetical symmetry of the commutant for modular invariants. (English summary) **94k:81288**
Sachdev, Subir Polylogarithm identities in a conformal field theory in three dimensions. (English summary) **94k:81289**
Shramko, O. V. *see* **Kukhtin, V. V., 94m:11152**
Smirnov, Vladimir Aleksandrovich[3] Calculation of general p-adic Feynman amplitude. (English summary) **94e:81213**
Suzuki, Junji *see* **Kuniba, Atsuo; et al., 94j:81235**
Tenenbaum, Gérald *see* **Mendès France, Michel, 94g:82017**
Thiran, E. *see* **Ruelle, Ph.; et al., 94k:81288**
Togashi, Akira (*with* Huzino, Seiiti) On the structure of iteration scheme of modular type of order n. (English summary) **94i:58061a**
— *see also* **Huzino, Seiiti, 94i:58061b**
Vickers, G. T. *see* **Broom, M.; et al., 94m:92004**
Vivaldi, F. *see* **Arrowsmith, David K., 94c:58054**
Vladimirov, V. S. On the Freund-Witten adelic formula for Veneziano amplitudes. (English summary) **94d:11096**
— On a justification of the Freund-Witten adelic formula for four-point Veneziano amplitudes. (Russian. English and Russian summaries) **94e:11127**
Weyers, J. *see* **Ruelle, Ph.; et al., 94k:81288**
Xie, Qian (*with* Huang, Mei Chun) Description of the crystallographic direction families for a perfect crystal and lattice sums. (Chinese. English and Chinese summaries) **94k:82114**
Yoccoz, Jean-Christophe An introduction to small divisors problems. **94h:58148**

12–XX Field theory and polynomials

12–01 Instructional exposition (textbooks, tutorial papers, etc.)

Nagata, Masayoshi ★ Theory of commutative fields. (English summary) **94j:12001**

Items with secondary classifications in 12–01

(A'Campo, Annette) *see* **Artin, Michael, 94k:00001**
Artin, Michael ★ Algebra. (German. German summary) **94k:00001**
Maxfield, John E. (*with* Maxfield, Margaret W.) ★ Abstract algebra and solution by radicals. (English summary) **94d:00002**
Maxfield, Margaret W. *see* **Maxfield, John E., 94d:00002**
Moh, T. T. ★ Algebra. **94b:00006**
Spindler, Karlheinz ★ Abstract algebra with applications. Vol. II. (English summary) **94i:00002b**

12–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 12–02

(Darmon, Henri) *see* **Serre, Jean-Pierre, 94d:12006**
Serre, Jean-Pierre ★ Topics in Galois theory. **94d:12006**

12–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 12–03

Dixmier, Jacques Histoire du 13e problème de Hilbert. [History of Hilbert's 13th problem] **94j:12005**
Jordan, Camille ★ Traité des substitutions et des équations algébriques. (French) [Treatise on substitutions and algebraic equations] **94c:01039**
Toti Rigatelli, Laura Italian contributions of the first half of the 20th century to Galois theory. (Italian) **94b:01029**

12–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 12–04

Becker, Eberhard (*with* Neuhaus, R.) Computation of real radicals of polynomial ideals. (English summary) **94g:12001**
Neuhaus, R. *see* **Becker, Eberhard, 94g:12001**

12Dxx Real and complex fields

12D05 Polynomials: factorization

Bajaj, Chanderjit L. (*with* Canny, John F.; Garrity, Thomas; Warren, Joe) Factoring rational polynomials over the complex numbers. (English summary) **94a:12001**
Canny, John F. *see* **Bajaj, Chanderjit L.; et al., 94a:12001**
Garrity, Thomas *see* **Bajaj, Chanderjit L.; et al., 94a:12001**

Glesser, P. Majoration de la norme des facteurs d'un polynôme: cas où toutes les racines du polynôme sont réelles. (English and French summaries) [Upper bounds for the norm of factors of polynomials: case in which all of the roots of a polynomial are real] **94m:12001**
Hilano, Teluhiko *see* **Sasaki, Tateaki; et al., 94a:12002**
Prešić, S. A way of reducing the factorization problem in $\mathbf{Z}[x]$ to the factorization problem in $\mathbf{Z}$. (English summary) **94h:12001**
Saito, Tomokatsu *see* **Sasaki, Tateaki; et al., 94a:12002**
Sasaki, Tateaki (*with* Saito, Tomokatsu; Hilano, Teluhiko) Analysis of approximate factorization algorithm. I. (English summary) **94a:12002**
Warren, Joe *see* **Bajaj, Chanderjit L.; et al., 94a:12001**

Items with secondary classifications in 12D05

Boyd, David W. Two sharp inequalities for the norm of a factor of a polynomial. (English summary) **94a:11162**
— Bounds for the height of a factor of a polynomial in terms of Bombieri's norms. I. The largest factor. (English summary) **94m:11032a**
— Bounds for the height of a factor of a polynomial in terms of Bombieri's norms. II. The smallest factor. (English summary) **94m:11032b**
Clements, D. J. Rational spectral factorization using state-space methods. (English summary) **94h:93023**
Langevin, Michel Cas d'égalité pour le théorème de Mason et applications de la conjecture (*abc*). (English and French summaries) [Extremal cases for Mason's theorem and applications of the (*abc*) conjecture] **94j:11027**
Niederreiter, Harald A new efficient factorization algorithm for polynomials over small finite fields. (English summary) **94h:11112**

12D10 Polynomials: location of zeros (algebraic theorems) {For the analytic theory, see 26C10, 30C15.}

Chen, Xiao Song Necessary and sufficient conditions for an equation of degree n with real coefficients to have T real roots. (Chinese. English and Chinese summaries)
Gelca, Răzvan A short proof of a result on polynomials.
Győry, Kálmán On the number of pairs of polynomials with given resultant or given semi-resultant. **94i:12001**
Khimshiashvili, G. N. On the number of zeroes of a real polynomial endomorphism. (Russian and Georgian summaries) **94j:12002**
Luo, Yong Chao A test for polynomials with integer coefficients to have no rational roots. (Chinese. English and Chinese summaries)
Murakami, Masahiko A nonstandard proof of the continuity of zeros of polynomials. (English summary) **94c:12001**
Sakkalis, Takis On relations between Jacobians and resultants of polynomials in two variables. (English summary) **94e:12001**

Items with secondary classifications in 12D10

Anderson, Bruce Polynomial root dragging. **94i:26006**
Kalinina, Elizabeth A. (*with* Uteshev, A. Yu.) Determination of the number of roots of a polynomial lying in a given algebraic domain. (English summary) **94g:30004**
Kogan, Jacob How near is a stable polynomial to an unstable polynomial? (English summary) **94f:93084**
Korzh, S. A. (*with* Ovcharenko, I. E.; Ugrinovskii, R. A.) P. L. Chebyshev's recursion: some analytic and computational aspects. (Russian. English and Ukrainian summaries) **94j:26027**
Kurtz, David C. A sufficient condition for all the roots of a polynomial to be real. **94a:26036**
Lazard, D. Systems of algebraic equations (algorithms and complexity). (English summary) **94m:14076**
Ovcharenko, I. E. *see* **Korzh, S. A.; et al., 94j:26027**
Tesi, Alberto (*with* Vicino, Antonio; Zappa, Giovanni) Convexity properties of polynomials with assigned root location. (English summary)
Ugrinovskii, R. A. *see* **Korzh, S. A.; et al., 94j:26027**
Uteshev, A. Yu. *see* **Kalinina, Elizabeth A., 94g:30004**
Vicino, Antonio *see* **Tesi, Alberto; et al.**
Zagier, Don Algebraic numbers close to both 0 and 1. (English summary) **94c:11104**
Zappa, Giovanni *see* **Tesi, Alberto; et al.**

12D15 Fields related with sums of squares (formally real fields, Pythagorean fields, etc.) [see also 11Exx]

Becker, Eberhard (*with* Neuhaus, R.) Computation of real radicals of polynomial ideals. (English summary) **94g:12001**
Delzell, Charles N. (*with* González-Vega, Laureano; Lombardi, Henri) A continuous and rational solution to Hilbert's 17th problem and several cases of the Positivstellensatz. (English summary) **94f:12001**
— Continuous, piecewise-polynomial functions which solve Hilbert's 17th problem. **94d:12001**
Efrat, Ido (*with* Haran, Dan) On Galois groups over Pythagorean and semi-real closed fields. (English summary) **94m:12002**
González-Vega, Laureano *see* **Delzell, Charles N.; et al., 94f:12001**
Haran, Dan *see* **Efrat, Ido, 94m:12002**
Hofberger, Harald Real-local fields and the canonical operation of the automorphism group on the space of orderings. (English summary) **94j:12003**
Lombardi, Henri *see* **Delzell, Charles N.; et al., 94f:12001**
Neuhaus, R. *see* **Becker, Eberhard, 94g:12001**
Schmid, Joachim On totally positive units of real holomorphy rings. (English summary) **94m:12003**

Items with secondary classifications in 12D15

Andradas, Carlos (*with* Ruiz, Jesús M.) More on basic semialgebraic sets. **94g:14030**
Berr, Ralph Sums of mixed powers in fields and orderings of prescribed level. **94a:12016**
Colliot-Thélène, Jean-Louis The Noether-Lefschetz theorem and sums of 4-squares in the rational function field $\mathbf{R}(x, y)$. (French summary) **94b:14018**
Rajwade, A. R. ★ Squares. (English summary) **94m:11047**
Ruiz, Jesús M. *see* **Andradas, Carlos, 94g:14030**
Ware, Roger Quadratic forms and Galois cohomology over formally real fields. **94e:11034**

12D99 None of the above, but in this section

Items with secondary classifications in 12D99

Grosof, Miriam Schapiro (*with* Taiani, Geraldine) Vandermonde strikes again. **94e:15055**
Lee, Seng Luan (*with* Phillips, G. M.) Pencils, Pappus' theorem and polynomial interpolation. **94g:51002**
Phillips, G. M. *see* **Lee, Seng Luan, 94g:51002**
Taiani, Geraldine *see* **Grosof, Miriam Schapiro, 94e:15055**
Xavier, Frederico Invertibility of Bass-Connell-Wright polynomial maps. **94d:14014**

12Exx General field theory

12E05 Polynomials (irreducibility, etc.)

Grelak, Aleksander On a result of W. Graham. (English summary) **94k:12001**
Watkins, William Earl (*with* Zeitlin, Joel) The minimal polynomial of $\cos(2\pi/n)$. **94b:12001**
Yu, Jie Tai Computing minimal polynomials and the inverse via GCP. (English summary) **94d:12002**
Zannier, Umberto Ritt's second theorem in arbitrary characteristic. **94j:12004**
Zeitlin, Joel *see* **Watkins, William Earl, 94b:12001**

Items with secondary classifications in 12E05

Győry, Kálmán Some new results connected with resultants of polynomials and binary forms. **94i:11019**
Halter-Koch, Franz (*with* Narkiewicz, Władysław) Polynomial mappings defined by forms with a common factor. **94g:11020**
Langevin, Michel Cas d'égalité pour le théorème de Mason et applications de la conjecture (*abc*). (English and French summaries) [Extremal cases for Mason's theorem and applications of the (*abc*) conjecture] **94j:11027**
Lidl, R. (*with* Mullen, Gary L.; Turnwald, Gerhard) ★ Dickson polynomials. (English summary) **94i:11097**
Lorenzini, Dino J. Reducibility of polynomials in two variables. **94b:14006**
Mullen, Gary L. *see* **Lidl, R.; et al., 94i:11097**
Narkiewicz, Władysław *see* **Halter-Koch, Franz, 94g:11020**
Sakkalis, Takis On relations between Jacobians and resultants of polynomials in two variables. (English summary) **94e:12001**
Turnwald, Gerhard *see* **Lidl, R.; et al., 94i:11097**

12E10 Special polynomials

Chardin, M. The resultant via a Koszul complex. (English summary) **94f:12002**
Komatsu, Kenzo On certain affect-free equations. **94h:12002**

Items with secondary classifications in 12E10

Chao, Chong-Yun Polynomials over finite fields which commute with a permutation polynomial. **94m:12004**
Coonce, H. B. Permutable polynomials for several variables. (English summary) **94g:33002**
Evertse, Jan-Hendrik (*with* Győry, Kálmán) Lower bounds for resultants. I. **94h:11036**
Győry, Kálmán *see* **Evertse, Jan-Hendrik, 94h:11036**
Matveev, E. M. Arithmetic properties of the values of generalized binomials. (Russian. Russian summary) **94j:11028**
Savel'ev, I. V. Cyclotomic polynomials and singularities of complex hypersurfaces. (Russian) **94h:32062**
Zannier, Umberto Ritt's second theorem in arbitrary characteristic. **94j:12004**

12E12 Equations

Dixmier, Jacques Histoire du 13e problème de Hilbert. [History of Hilbert's 13th problem] **94j:12005**
Faina, Giorgio (*with* Ughi, Emanuela) Planar functions: a remark concerning the number of solutions of an equation. (English summary) **94j:12006**
Griffiths, H. Brian (*with* Hirst, A. E.) Cubic equations, or Where did the examination question come from?
Hirst, A. E. *see* **Griffiths, H. Brian**
Stillwell, John Galois theory for beginners. **94k:12002**
Ughi, Emanuela *see* **Faina, Giorgio, 94j:12006**

12E15 Skew fields, division rings [see also 11R52, 11R54, 11S45, 16Kxx]

Fein, Burton (*with* Saltman, David J.; Schacher, Murray M.) Crossed products over rational function fields. **94d:12003**
Feit, Walter The K-admissibility of $2A_6$ and $2A_7$. (English summary) **94f:12003**
Idris, Ismail M. $*$-value functions and total subrings in $*$-fields. (English summary) **94h:12003**
Leung, Ka Hin Weak $*$-orderings on $*$-fields. (English summary) **94c:12002**
Parimala, R. (*with* Sridharan, Ramaiyengar; Suresh, V.) A question on the discriminants of involutions of central division algebras. **94k:12003**
Saltman, David J. *see* **Fein, Burton; et al., 94d:12003**
Schacher, Murray M. *see* **Fein, Burton; et al., 94d:12003**
Sethuraman, B. A. Dec groups for arbitrarily high exponents. (English summary) **94k:12004**
Sridharan, Ramaiyengar *see* **Parimala, R.; et al., 94k:12003**
Suresh, V. *see* **Parimala, R.; et al., 94k:12003**

Items with secondary classifications in 12E15

Chen, Jian Long *see* **Huang, Jun Min, 94a:16027**
Gräter, Joachim Central extensions of ordered skew fields. **94g:12004**
Huang, Jun Min (*with* Chen, Jian Long) A note on proper n-pseudo ideals of division rings. (Chinese. English summary) **94a:16027**
Lewis, David W. (*with* Tignol, J.-P.) Square class groups and Witt rings of central simple algebras. **94a:19007**
Schofield, Aidan *see* **Van den Bergh, Michel, 94d:16025**
Tignol, J.-P. *see* **Lewis, David W., 94a:19007**
Turnwald, Gerhard Multiplicative subgroups of finite index in a division ring. (English summary) **94e:12002**
Van den Bergh, Michel (*with* Schofield, Aidan) Division algebra coproducts of index n. **94d:16025**
Vonessen, Nikolaus Mapping Galois extensions into division algebras. **94a:16066**

12E20 Finite fields (field-theoretic aspects)

Chao, Chong-Yun Polynomials over finite fields which commute with a permutation polynomial. **94m:12004**
Fried, Michael D. (*with* Guralnick, Robert M.; Saxl, Jan) Schur covers and Carlitz's conjecture. (English summary) **94j:12007**
Guralnick, Robert M. *see* **Fried, Michael D.; et al., 94j:12007**
Saxl, Jan *see* **Fried, Michael D.; et al., 94j:12007**

Items with secondary classifications in 12E20

Geiselmann, Willi (*with* Gollmann, Dieter) Self-dual bases in $\mathbf{F}_{q^n}$. (English summary) **94g:11115**
Gollmann, Dieter *see* **Geiselmann, Willi, 94g:11115**
Jungnickel, Dieter ★ Finite fields. (English summary) **94g:11109**

12E25 Hilbertian fields; Hilbert's irreducibility theorem

Grover, V. K. (*with* Sankaran, N.) Irreducibility in approximation couples. **94k:12005**
Jarden, Moshe Intersections of local algebraic extensions of a Hilbertian field. (English summary) **94c:12003**
— (*with* Lubotzky, Alexander) Hilbertian fields and free profinite groups. **94a:12003**
Lubotzky, Alexander *see* **Jarden, Moshe, 94a:12003**
Sankaran, N. *see* **Grover, V. K., 94k:12005**

Items with secondary classifications in 12E25

Fried, Michael D. (*with* Haran, Dan; Völklein, Helmut) Absolute Galois group of the totally real numbers. (English and French summaries) **94k:12007**
Haran, Dan *see* **Fried, Michael D.; et al., 94k:12007**
Völklein, Helmut *see* **Fried, Michael D.; et al., 94k:12007**

12E99 None of the above, but in this section

Halter-Koch, Franz On products of additive functions (a third approach). (English summary) **94c:12004**
Turnwald, Gerhard Multiplicative subgroups of finite index in a division ring. (English summary) **94e:12002**

Items with secondary classifications in 12E99

Valibouze, Annick Sur l'arité des fonctions. (English summary) [On the arity of functions] **94g:05099**

12Fxx Field extensions

12F05 Algebraic extensions

Jelonek, Zbigniew A simple proof of the existence of the algebraic closure of a field.

Items with secondary classifications in 12F05

Pfister, Albrecht A new proof of the homogeneous Nullstellensatz for p-fields, and applications to topology. **94m:13027**

12F10 Separable extensions, Galois theory

Abhyankar, Shreeram S. Galois theory on the line in nonzero characteristic. **94a:12004**
Barrera-Mora, Fernando (*with* Vélez, William Yslas) Some results on radical extensions. **94k:12006**
Crespo, Teresa Erratum: "Explicit construction of $\tilde{A}_n$ type fields" [J. Algebra **127** (1989), no. 2, 452–461; MR 91a:12006]. **94c:12005**
Fried, Michael D. (*with* Haran, Dan; Völklein, Helmut) Absolute Galois group of the totally real numbers. (English and French summaries) **94k:12007**
Haran, Dan *see* **Fried, Michael D.; et al., 94k:12007**
Hofberger, Harald Gibt es nichttriviale absolut-normale Körpererweiterungen? [Is there a nontrivial absolutely normal field extension?] **94g:12002**
Ponomarëv, K. N. On the action of the group ring of the group of automorphisms of a field. (Russian. Russian summary) **94c:12006**
Vélez, William Yslas *see* **Barrera-Mora, Fernando, 94k:12006**
Völklein, Helmut *see* **Fried, Michael D.; et al., 94k:12007**
Waterhouse, William C. The normal closures of certain Kummer extensions. (English summary) **94m:12005**

Items with secondary classifications in 12F10

Beukers, Frits Differential Galois theory. **94d:12007**
Boulagouaz, M. The graded and tame extensions. **94k:12010**
Efrat, Ido (*with* Koenigsmann, Jochen) On a generalized Artin-Schreier theorem for real-maximal fields. **94h:12006**
— (*with* Haran, Dan) On Galois groups over Pythagorean and semi-real closed fields. (English summary) **94m:12002**
Haran, Dan On the cohomological dimension of Artin-Schreier structures. **94g:20072**
— *see also* **Efrat, Ido, 94m:12002**
Koenigsmann, Jochen *see* **Efrat, Ido, 94h:12006**
Komatsu, Kenzo On certain affect-free equations. **94h:12002**
Waterhouse, William C. Retractions of separable commutative algebras. **94b:16024**

12F12 Inverse Galois theory

(Darmon, Henri) *see* **Serre, Jean-Pierre, 94d:12006**
Faddeev, D. K. *see* **Ishkhanov, V. V.; et al., 94g:12003**
Ishkhanov, V. V. (*with* Lur'e, B. B.; Faddeev, D. K.) ★ Задача погружения в теории Галуа. (Russian) [The embedding problem in Galois theory] **94g:12003**
Kambayashi, T. On the Galois embedding problem for p-extensions in characteristic p. **94a:12005**
Lur'e, B. B. *see* **Ishkhanov, V. V.; et al., 94g:12003**
Malle, Gunter Polynome mit Galoisgruppen $\mathrm{PGL}_2(p)$ und $\mathrm{PSL}_2(p)$ über $\mathbf{Q}(t)$. [Polynomials with Galois groups $\mathrm{PGL}_2(p)$ and $\mathrm{PSL}_2(p)$ over $\mathbf{Q}(t)$] **94c:12007**
Martinais, Dominique (*with* Schneps, Leila) Polynômes à groupe de Galois diédral. (French summary) [Polynomials with dihedral Galois group] **94e:12003**
Opolka, Hans Cyclic reduction of central embedding problems. (English summary) **94j:12008**
Schneps, Leila On cyclic field extensions of degree 8. (English summary) **94d:12004**
— On reduction of p-groups. (English summary) **94d:12005**
— *see also* **Martinais, Dominique, 94e:12003**
Serre, Jean-Pierre ★ Topics in Galois theory. **94d:12006**
Sonn, Jack Brauer groups, embedding problems, and nilpotent groups as Galois groups. (English summary) **94m:12006**
Vila, Núria On the inverse problem of Galois theory. (English summary) **94a:12006**
Völklein, Helmut $\mathrm{GL}_n(q)$ as Galois group over the rationals. **94a:12007**
— Braid group action via $\mathrm{GL}_n(q)$ and $\mathrm{U}_n(q)$, and Galois realizations. (English summary) **94j:12009**

Items with secondary classifications in 12F12

Feit, Walter The K-admissibility of $2A_6$ and $2A_7$. (English summary) **94f:12003**
van der Put, Marius Discrete groups, Mumford curves and theta functions. (English and French summaries) **94h:14021**
Thompson, John G. Discrete groups and Galois theory. **94c:20082**

12F15 Inseparable extensions

Items with secondary classifications in 12F15

Baba, Kiyoshi Higher derivations and endomorphism rings. I. (English summary) **94c:12009**

12F20 Transcendental extensions

Deck, Karin M. Some properties of the automorphism group of a transcendental field extension. **94b:12002**
Garg, Usha *see* **Khanduja, Sudesh K., 94i:12002**
Khanduja, Sudesh K. On valuations of $K(x)$. (English summary) **94a:12008**
— (*with* Garg, Usha) Residue fields of valued function fields of conics. (English summary) **94i:12002**
Pop, Florian On Grothendieck's conjecture of birational anabelian geometry. **94m:12007**

Items with secondary classifications in 12F20

Chiang, Li (*with* Hung, Yu Ch'ing) The invariants of orthogonal group actions. (English summary) **94k:11048**
Cohen, Jo-Ann *see* **Mathews, David, 94m:12009**
Garg, Usha *see* **Khanduja, Sudesh K., 94j:12012**
Girolami, Florida AF-rings and locally Jaffard rings. **94m:13017**
Halter-Koch, Franz (*with* Narkiewicz, Władysław) Finiteness properties of polynomial mappings. **94j:14016**
Hofberger, Harald Gibt es nichttriviale absolut-normale Körpererweiterungen? [Is there a nontrivial absolutely normal field extension?] **94g:12002**
Hu, Shou Jen Fixed fields of some unipotent groups. (English summary) **94f:20082**
Hung, Yu Ch'ing *see* **Chiang, Li, 94k:11048**
Khanduja, Sudesh K. (*with* Garg, Usha) Prolongations of a Krull valuation to a simple transcendental extension. **94j:12012**
Mathews, David (*with* Cohen, Jo-Ann) Valuations defined by Ostrowski nets. (English summary) **94m:12009**
Narkiewicz, Władysław *see* **Halter-Koch, Franz, 94j:14016**

12F99 None of the above, but in this section

Borzoee, R. A. (*with* Zahedi, M. M.) Fuzzy algebraic extension generated by a fuzzy subset and maximal fuzzy algebraic extension. (English summary) **94i:12003**
Mordeson, John N. Distinguished subfields and splitting of fuzzy subfields. (English summary) **94a:12009**
— Fuzzy Galois theory. (English summary) **94h:12004**
Zahedi, M. M. *see* **Borzoee, R. A., 94i:12003**

Items with secondary classifications in 12F99

Epkenhans, Martin Trace forms of trinomials. (English summary) **94c:11033**

12Gxx Homological methods (field theory)

12G05 Galois cohomology [see also 13A20, 16H05]

Bogomolov, F. A. Stable cohomology of groups and algebraic varieties. (Russian. Russian summary) **94c:12008**
Gille, Philippe *R*-équivalence et principe de norme en cohomologie galoisienne. (English and French summaries) [*R*-equivalence and norm principle in Galois cohomology] **94a:12010**
Hürlimann, Werner A short proof of the Albert-Brauer-Hasse-Noether theorem. (English summary) **94a:12011**
Merkur'ev, A. S. (*with* Tignol, J.-P.) Galois cohomology of biquadratic extensions. **94a:12012**
Tignol, J.-P. *see* **Merkur'ev, A. S., 94a:12012**

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Bremigan, Ralph J. Galois cohomology and real algebraic quotients. (English summary) **94h:20052**
(Darmon, Henri) *see* **Serre, Jean-Pierre, 94d:12006**
Efrat, Ido Local-global principles for Witt rings. (English summary) **94m:11050**
Koya, Yoshihiro A generalization of Tate-Nakayama theorem by using hypercohomology. **94g:11101**
Lorenz, Falko Die Schurgruppe eines lokalen Körpers. [The Schur group of a local field] **94h:11106**
Opolka, Hans Group extensions and cohomology groups. (English summary) **94b:20052**
Parimala, R. (*with* Sridharan, Ramaiyengar; Suresh, V.) A question on the discriminants of involutions of central division algebras. **94k:12003**
Peyre, Emmanuel Unramified cohomology and rationality problems. **94e:14015**
Schneps, Leila On cyclic field extensions of degree 8. (English summary) **94d:12004**
Serre, Jean-Pierre ★ Topics in Galois theory. **94d:12006**
Sonn, Jack Brauer groups, embedding problems, and nilpotent groups as Galois groups. (English summary) **94m:12006**
Sridharan, Ramaiyengar *see* **Parimala, R.; et al., 94k:12003**
Suresh, V. *see* **Parimala, R.; et al., 94k:12003**
Ware, Roger Quadratic forms and Galois cohomology over formally real fields. **94e:11034**

12Hxx Differential and difference algebra

12H05 Differential algebra [see also 13Nxx]

Baba, Kiyoshi Higher derivations and endomorphism rings. I. (English summary) **94c:12009**
— Higher derivations and endomorphism rings. II. (English summary) **94j:12010**
Beukers, Frits Differential Galois theory. **94d:12007**
Duverney, Daniel *U*-dérivation. (English and French summaries) [*U*-derivation] **94m:12008**
Fahim, Abdelmajid Théorème de Harris-Sibuya-Singer. (English and French summaries) [The Harris-Sibuya-Singer theorem] **94c:12010**
Kolchin, E. R. A problem on differential polynomials. **94a:12013**
Levin, A. B. (*with* Mikhalëv, A. V.) Dimension polynomials of filtered differential *G*-modules and extensions of differential *G*-fields. (English summary) **94c:12011**
Mikhalëv, A. V. *see* **Levin, A. B., 94c:12011**
Nishioka, Keiji Painlevé's theorem on automorphic functions. II. **94a:12014**
Ramis, Jean-Pierre A short introduction to differential Galois theory. (English summary) (*see* **94b:93006**)
— About the solution of some inverse problems in differential Galois theory by Hamburger equations. **94j:12011**
Retakh, V. S. (*with* Shander, V. N.) The Schwarz derivative for noncommutative differential algebras. **94k:12008**
Shander, V. N. *see* **Retakh, V. S., 94k:12008**
Singer, Michael F. Moduli of linear differential equations on the Riemann sphere with fixed Galois groups. (English summary) **94k:12009**
Wirsing, Eduard Functions without residue and a bilinear differential equation. **94d:12008**

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Adkins, William A. (*with* Evard, Jean-Claude; Guralnick, Robert M.) Matrices over differential fields which commute with their derivative. (English summary) **94e:15025**
Evard, Jean-Claude *see* **Adkins, William A.; et al., 94e:15025**
Fényes, T. On an algebraic differential equation of Bernoulli type. **94m:44003**
Guralnick, Robert M. *see* **Adkins, William A.; et al., 94e:15025**
Holland, Kitty L. Projective geometries of algebraically closed fields of characteristic zero. (English summary) **94i:51001**
Singer, Michael F. (*with* Ulmer, Felix) Galois groups of second and third order linear differential equations. (English summary) **94i:34015**
— (*with* Ulmer, Felix) Liouvillian and algebraic solutions of second and third order linear differential equations. (English summary) **94i:34016**
Ulmer, Felix *see* **Singer, Michael F., 94i:34015** *and* **94i:34016**
Vidal, Robert Un analogue non commutatif du théorème de Puiseux. (English summary) [A noncommutative analogue of the Puiseux theorem] **94k:16045**

12H10 Difference algebra [see also 39Axx]

Chabert, Jean-Luc Dérivées et différences divisées à valeurs entières. [Integer-valued derivatives and divided differences] **94c:12012**

Items with secondary classifications in 12H10

Chabert, Jean-Luc Polynomials whose derivatives are integer-valued in number fields. (English summary) **94m:11126**
Petkovšek, Marko Hypergeometric solutions of linear recurrences with polynomial coefficients. (English summary) **94a:39006**

12H20 Abstract differential equations [see also 34Gxx]

Tyurin, S. A. Some types of differential equations over a field of finite characteristic. (Russian) **94e:12004**

Items with secondary classifications in 12H20

Astrelin, A. V. Search for the eigenpolynomials of the differential operator $P\partial/\partial x + Q\partial/\partial y$ over $\mathbf{C}[x, y]$. (Russian. Russian summary) **94b:13016**
Bell, D. J. (*with* Lu, Xiao Yun) Differential algebraic control theory. (English summary) **94d:93002**
Bertrand, Daniel Groupes algébriques et équations différentielles linéaires. (French summary) [Algebraic groups and linear differential equations] **94b:34006**
Chiricota, Yves (*with* Labelle, Gilbert) Familles de solutions combinatoires de $y' = 1 + y^2$ et d'équations différentielles autonomes. (English and French summaries) [Families of combinatorial solutions of $y' = 1 + y^2$ and of autonomous differential equations] **94f:05008**
Labelle, Gilbert *see* **Chiricota, Yves, 94f:05008**
Lu, Xiao Yun *see* **Bell, D. J., 94d:93002**
Rubel, Lee A. Some research problems about algebraic differential equations. II. **94c:34003**
Ulmer, Felix On algebraic solutions of linear differential equations with primitive unimodular Galois group. (English summary) **94e:68094**

12H25 *p*-adic differential equations [see also 11S80, 14G20, 34Gxx]

Baldassarri, Francesco (*with* Chiarellotto, Bruno) Formal and *p*-adic theory of differential systems with logarithmic singularities depending upon parameters. **94i:12004**
Chiarellotto, Bruno *see* **Baldassarri, Francesco, 94i:12004**

12Jxx Topological fields

12J05 Normed fields

Items with secondary classifications in 12J05

Frič, Roman On completions of rationals. (English summary) **94g:54002**

12J10 Valued fields

Boulagouaz, M. The graded and tame extensions. **94k:12010**
Cohen, Jo-Ann *see* **Mathews, David, 94m:12009**
Green, Barry W. (*with* Matignon, M.; Pop, Florian) On valued function fields. III. Reductions of algebraic curves. **94f:12004**
(Kani, E.) *see* **Green, Barry W.; et al., 94f:12004**
Mathews, David (*with* Cohen, Jo-Ann) Valuations defined by Ostrowski nets. (English summary) **94m:12009**
Matignon, M. *see* **Green, Barry W.; et al., 94f:12004**
Poonen, Bjorn Maximally complete fields. (English summary) **94h:12005**
Pop, Florian *see* **Green, Barry W.; et al., 94f:12004**
Schoissengeier, Johannes Change of variables in a multiple integral for local fields. (English summary) **94b:12003**
Tignol, J.-P. Classification of wild cyclic field extensions and division algebras of prime degree over a Henselian field. **94a:12015**

Items with secondary classifications in 12J10

Farré, Rafel A transfer theorem for Henselian valued and ordered fields. (English summary) **94j:03078**
Garg, Usha *see* **Khanduja, Sudesh K., 94j:12012**
Hofberger, Harald Real-local fields and the canonical operation of the automorphism group on the space of orderings. (English summary) **94j:12003**
Khanduja, Sudesh K. (*with* Garg, Usha) Prolongations of a Krull valuation to a simple transcendental extension. **94j:12012**
(Sastry, Pramathanath) *see* **Yekutieli, Amnon, 94e:14026**
Sethuraman, B. A. Dec groups for arbitrarily high exponents. (English summary) **94k:12004**
Yekutieli, Amnon An explicit construction of the Grothendieck residue complex. (French summary) **94e:14026**

12J15 Ordered fields

Berr, Ralph Sums of mixed powers in fields and orderings of prescribed level. **94a:12016**
Efrat, Ido (*with* Koenigsmann, Jochen) On a generalized Artin-Schreier theorem for real-maximal fields. **94h:12006**
Gräter, Joachim Central extensions of ordered skew fields. **94g:12004**
Koenigsmann, Jochen *see* **Efrat, Ido, 94h:12006**
Redfield, R. H. Lattice-ordered fields as convolution algebras. **94b:12004**
Ribenboim, Paulo Some examples of lattice-orders in real closed fields. (English summary) **94e:12005**
Scheiderer, Claus Some remarks on orderings under finite field extensions. **94d:12009**

Items with secondary classifications in 12J15

Boughattas, Sedki Résultats optimaux sur l'existence d'une partie entière dans les corps ordonnés. (French summary) [Optimal results on the existence of an integer part in ordered fields] **94h:03066**
Bröcker, Ludwig Families of semialgebraic sets and limits. **94i:14058**
Delzell, Charles N. Continuous, piecewise-polynomial functions which solve Hilbert's 17th problem. **94d:12001**

Eisele, Eberhard Topologische Divisionalgebren ohne zugehörige topologische affine Ebene. (English summary) [Topological division algebras without corresponding topological affine plane] **94j:51021**
Farré, Rafel A transfer theorem for Henselian valued and ordered fields. (English summary) **94j:03078**
Fried, Michael D. (*with* Haran, Dan; Völklein, Helmut) Absolute Galois group of the totally real numbers. (English and French summaries) **94k:12007**
González-Vega, Laureano (*with* Lombardi, Henri) A real Nullstellensatz and Positivstellensatz for the semipolynomials over an ordered field. **94j:14052**
Haran, Dan *see* **Fried, Michael D.; et al., 94k:12007**
Hofberger, Harald Real-local fields and the canonical operation of the automorphism group on the space of orderings. (English summary) **94j:12003**
Lombardi, Henri *see* **González-Vega, Laureano, 94j:14052**
Loos, Rüdiger (*with* Weispfenning, Volker) Applying linear quantifier elimination. (English summary) **94f:03042**
Ressayre, Jean-Pierre Integer parts of real closed exponential fields (extended abstract). (*see* **94c:03001**)
Solernó, Pablo Effective Lojasiewicz inequalities in semialgebraic geometry. (English summary) **94i:14059**
Tecklenburg, Helga ★ Stufen der Anordnung in Geometrie und Algebra. (German) [Levels of ordering in geometry and algebra] **94c:51031**
Völklein, Helmut *see* **Fried, Michael D.; et al., 94k:12007**
Weispfenning, Volker *see* **Loos, Rüdiger, 94f:03042**

12J17 Topological semifields

Items with secondary classifications in 12J17

Huber, Roland Continuous valuations. **94e:13041**

12J20 General valuation theory

Garg, Usha *see* **Khanduja, Sudesh K., 94j:12012**
Khanduja, Sudesh K. (*with* Garg, Usha) Prolongations of a Krull valuation to a simple transcendental extension. **94j:12012**
Więsław, Witold Topological fields—results and problems. **94f:12005**

Items with secondary classifications in 12J20

Alajbegović, J. (*with* Močkoř, Jiří) ★ Approximation theorems in commutative algebra. (English summary) **94d:13001**
Brőcker, Ludwig Families of semialgebraic sets and limits. **94i:14058**
Cohen, Jo-Ann *see* **Mathews, David, 94m:12009**
Efrat, Ido (*with* Koenigsmann, Jochen) On a generalized Artin-Schreier theorem for real-maximal fields. **94h:12006**
Garg, Usha *see* **Khanduja, Sudesh K., 94i:12002**
Idris, Ismail M. ∗-value functions and total subrings in ∗-fields. (English summary) **94h:12003**
Khanduja, Sudesh K. (*with* Garg, Usha) Residue fields of valued function fields of conics. (English summary) **94i:12002**
Koenigsmann, Jochen *see* **Efrat, Ido, 94h:12006**
Mathews, David (*with* Cohen, Jo-Ann) Valuations defined by Ostrowski nets. (English summary) **94m:12009**
Močkoř, Jiří *see* **Alajbegović, J., 94d:13001**

12J25 Non-Archimedean valued fields [see also 30G06, 32P05, 46S10, 47S10]

Berz, Martin Automatic differentiation as non-Archimedean analysis. (English summary) **94c:12013**
De Smedt, Stany Some new bases for p-adic continuous functions. **94d:12010**
Sankaran, N. p-Henselian fields and their intersections. **94f:12006**

Items with secondary classifications in 12J25

Bishop, Edward Isometries of the p-adic numbers. **94f:11124**
Christol, Gilles p-adic numbers and ultrametricity. **94f:11126**
Escassut, Alain (*with* Sarmant-Durix, Marie-Claude) Mittag-Leffler series and Motzkin product for invertible analytic elements. (English summary) **94h:46114**
Freund, Peter G. O. p-adics and q-deformations. **94g:11108**
Ikeda, Kazuo (*with* Kim, Taekyun; Shiratani, Katsumi) On p-adic bounded functions. **94b:11117**
Kim, Taekyun *see* **Ikeda, Kazuo; et al., 94b:11117**
Sarmant-Durix, Marie-Claude *see* **Escassut, Alain, 94h:46114**
Shiratani, Katsumi *see* **Ikeda, Kazuo; et al., 94b:11117**
Zheng, Wei Xing Self-similar functions on local fields. (Chinese. Chinese summary) **94f:28013**

12Kxx Generalizations of fields

12K05 Near-fields [see also 16Y30]

Items with secondary classifications in 12K05

Tecklenburg, Helga ★ Stufen der Anordnung in Geometrie und Algebra. (German) [Levels of ordering in geometry and algebra] **94c:51031**

12K10 Semifields [see also 16Y60]

Gardner, B. J. Free commutative semifields. (English summary) **94e:12006**
Weinert, Hanns Joachim (*with* Wiegandt, Richard) Complementary radical classes of proper semifields. (English summary) **94i:12005**
Wiegandt, Richard *see* **Weinert, Hanns Joachim, 94i:12005**

12K99 None of the above, but in this section

Johnson, Corlis Powell Sub-neofields of finite neofields. (English summary) **94e:12007**
Kiechle, Hubert g-Quasikörper. (English summary) [g-quasifields] **94e:12008**
Massouros, Ch. G. A class of hyperfields and a problem in the theory of fields. (English summary)
Mittas, Jean Introduction à l'analyse hypercompositionnelle. (English summary) [Introduction to hypercompositional analysis] **94i:12006**

Items with secondary classifications in 12K99

Bödi, Richard Automorphism groups of differentiable double loops. (English summary) **94j:22003**

12Lxx Connections with logic

12L12 Model theory [see also 03C60]

Items with secondary classifications in 12L12

Duret, Jean-Louis Équivalence élémentaire et isomorphisme des corps de courbe sur un corps algébriquement clos. [Elementary equivalence and isomorphism of function fields of curves over an algebraically closed field] **94g:03073**
Efrat, Ido (*with* Koenigsmann, Jochen) On a generalized Artin-Schreier theorem for real-maximal fields. **94h:12006**
Farré, Rafel A transfer theorem for Henselian valued and ordered fields. (English summary) **94j:03078**
Holland, Kitty L. Projective geometries of algebraically closed fields of characteristic zero. (English summary) **94i:51001**
Koenigsmann, Jochen *see* **Efrat, Ido, 94h:12006**
Macintyre, Angus *see* **Scowcroft, Philip, 94h:03067**
Otero, Margarita The joint embedding property in normal open induction. (English summary) **94e:03037a**
— Quadratic forms in normal open induction. (English summary) **94h:03068**
— The amalgamation property in normal open induction. (English summary) **94e:03037b**
Scowcroft, Philip (*with* Macintyre, Angus) On the elimination of imaginaries from certain valued fields. (English summary) **94h:03067**
Shlapentokh, Alexandra Diophantine relations between rings of S-integers of fields of algebraic functions in one variable over constant fields of positive characteristic. (English summary) **94d:03073**
Smith, Stuart T. Prime numbers and factorization in IE_1 and weaker systems. (English summary) **94a:03062**
Tsuboi, Akito Algebraic types and automorphism groups. **94d:03066**

12L15 Nonstandard arithmetic [see also 03H15]

Items with secondary classifications in 12L15

Olekhnik, S. N. (*with* Potapov, M. K.; Pasichenko, P. I.) ★ Нестандартные методы решения уравнений и неравенств. (Russian. Russian summary) [Nonstandard methods for solving equations and inequalities] **94k:00004**
Pasichenko, P. I. *see* **Olekhnik, S. N.; et al., 94k:00004**
Potapov, M. K. *see* **Olekhnik, S. N.; et al., 94k:00004**

12L99 None of the above, but in this section

Kudinov, O. V. Algebraic dependences and reducibilities of constructivizations in universal domains. (English summary) **94k:12011**

Items with secondary classifications in 12L99

Banaschewski, Bernhard Algebraic closure without choice. (English summary) **94j:03103**
Chatzidakis, Zoé (*with* van den Dries, Lou; Macintyre, Angus) Definable sets over finite fields. **94c:03049**
van den Dries, Lou *see* **Chatzidakis, Zoé; et al., 94c:03049**
Macintyre, Angus *see* **Chatzidakis, Zoé; et al., 94c:03049**

12Y05 Computational aspects of field theory and polynomials

Canny, John F. (*with* Emiris, Ioannis) An efficient algorithm for the sparse mixed resultant. (English summary) **94m:12010**
Emiris, Ioannis *see* **Canny, John F., 94m:12010**
von zur Gathen, Joachim (*with* Shoup, Victor) Computing Frobenius maps and factoring polynomials. (English summary) **94d:12011**
Grigor'ev, D. Yu. (*with* Karpiński, Marek) A zero-test and an interpolation algorithm for the shifted sparse polynomials. (English summary) **94h:12007**
Heintz, Joos (*with* Morgenstern, Jacques) On the intrinsic complexity of elimination theory. (English summary) **94k:12012**
Hou, Xiao Rong *see* **Yang, Lu; et al., 94d:12012**
Karpiński, Marek *see* **Grigor'ev, D. Yu., 94h:12007**
Langemyr, Lars Algorithms for a multiple algebraic extension. II. (English summary) **94e:12009**
Morgenstern, Jacques *see* **Heintz, Joos, 94k:12012**
Shoup, Victor *see* **von zur Gathen, Joachim, 94d:12011**
Yang, Lu (*with* Zhang, Jing Zhong; Hou, Xiao Rong) ★ A criterion of dependency between algebraic equations and its applications. **94d:12012**

Zhang, Jing Zhong *see* **Yang, Lu; et al., 94d:12012**

Items with secondary classifications in 12Y05

Ashlock, Daniel A. Permutation polynomials of abelian group rings over finite fields. (English summary) **94e:11130**
Bach, Eric (*with* Driscoll, James; Shallit, Jeffrey) Factor refinement. (English summary) **94m:11148**
Bajaj, Chanderjit L. (*with* Canny, John F.; Garrity, Thomas; Warren, Joe) Factoring rational polynomials over the complex numbers. (English summary) **94a:12001**
Canny, John F. *see* **Bajaj, Chanderjit L.; et al., 94a:12001**
Dedieu, Jean-Pierre (*with* Yakoubsohn, Jean-Claude) Computing the real roots of a polynomial by the exclusion algorithm. (English summary) **94b:65066**
Driscoll, James *see* **Bach, Eric; et al., 94m:11148**
Garrity, Thomas *see* **Bajaj, Chanderjit L.; et al., 94a:12001**
Hilano, Teluhiko *see* **Sasaki, Tateaki; et al., 94a:12002**
Lazard, D. (*with* Valibouze, Annick) Computing subfields: reverse of the primitive element problem. (English summary) **94h:68101**
Li, Wei[1] (*with* Yu, Jie Tai) Computing minimal polynomials and the degree of unfaithfulness. (English summary) **94h:13020**
Mishra, Bhubaneswar ★ Algorithmic algebra. **94j:68127**
Pedersen, Paul Calculating multidimensional symmetric functions using Jacobi's formula. **94g:68058**
Petkovšek, Marko Hypergeometric solutions of linear recurrences with polynomial coefficients. (English summary) **94a:39006**
Saito, Tomokatsu *see* **Sasaki, Tateaki; et al., 94a:12002**
Sasaki, Mutsuko *see* **Sasaki, Tateaki, 94a:13029**
Sasaki, Tateaki (*with* Saito, Tomokatsu; Hilano, Teluhiko) Analysis of approximate factorization algorithm. I. (English summary) **94a:12002**
— (*with* Sasaki, Mutsuko) A unified method for multivariate polynomial factorizations. (English summary) **94a:13029**
Shallit, Jeffrey *see* **Bach, Eric; et al., 94m:11148**
Valibouze, Annick *see* **Lazard, D., 94h:68101**
Warren, Joe *see* **Bajaj, Chanderjit L.; et al., 94a:12001**
Yakoubsohn, Jean-Claude *see* **Dedieu, Jean-Pierre, 94b:65066**
Yu, Jie Tai *see* **Li, Wei[1], 94h:13020**

13–XX Commutative rings and algebras

Items with secondary classifications in 13–XX

(Cahen, Paul-Jean) *see* **Commutative ring theory, 94h:13001**
(Costa, Douglas L.) *see* **Commutative ring theory, 94h:13001**
(Fontana, Marco) *see* **Commutative ring theory, 94h:13001**
(Kabbaj, Salah-Eddine) *see* **Commutative ring theory, 94h:13001**

Items listed otherwise than by author

Commutative ring theory ★ Commutative ring theory. **94h:13001**
Conference:
Commutative Ring Theory ★ Commutative ring theory. **94h:13001**
Fès ★ Commutative ring theory. **94h:13001**

13–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 13–01

(A'Campo, Annette) *see* **Artin, Michael, 94k:00001**
Adkins, William A. (*with* Weintraub, Steven H.) ★ Algebra. **94a:00001**
Artin, Michael ★ Algebra. (German. German summary) **94k:00001**
Lorenz, Falko ★ Einführung in die Algebra. Teil I. (German. German summary) [Introduction to algebra. Part I] **94d:00001**
Spindler, Karlheinz ★ Abstract algebra with applications. Vol. II. (English summary) **94i:00002b**
Tran Van Hiep ★ Algèbre. (French. French summary) [Algebra]
Weintraub, Steven H. *see* **Adkins, William A., 94a:00001**

13–02 Research exposition (monographs, survey articles)

Alajbegović, J. (*with* Močkoř, Jiří) ★ Approximation theorems in commutative algebra. (English summary) **94d:13001**
Močkoř, Jiří *see* **Alajbegović, J., 94d:13001**

13–03 Historical (must also be assigned at least one classification number from Section 01)

Salmon, P. The origins of commutative algebra in Italy. (Italian. English summary) **94e:13001**

13–04 Explicit machine computation and programs (not the theory of computation or programming)

Suzuki, Masayuki Improvements of the power-series coefficient polynomial remainder sequence GCD algorithm. (English summary) **94f:13001**

Items with secondary classifications in 13–04

Bigatti, Anna Maria (*with* Conti, Pasqualina; Robbiano, Lorenzo; Traverso, Carlo) A "divide and conquer" algorithm for Hilbert-Poincaré series, multiplicity and dimension of monomial ideals. **94k:13033**
Conti, Pasqualina *see* **Bigatti, Anna Maria; et al., 94k:13033**
Hollman, Joachim On the computation of the Hilbert series. (English summary) **94k:13032**
Kalkbrener, Michael A generalized Euclidean algorithm for computing triangular representations of algebraic varieties. (English summary) **94e:13053**
Robbiano, Lorenzo *see* **Bigatti, Anna Maria; et al., 94k:13033**
Traverso, Carlo *see* **Bigatti, Anna Maria; et al., 94k:13033**

13–06 Proceedings, conferences, collections, etc.

(Cahen, Paul-Jean) *see* **Commutative ring theory, 94h:13001**
(Costa, Douglas L.) *see* **Commutative ring theory, 94h:13001**
(Eisenbud, David) *see* **Computational algebraic geometry and commutative algebra, 94f:13002**
(Eyssette, Frédéric) *see* **Computational algebraic geometry, 94b:13001**
(Fontana, Marco) *see* **Commutative ring theory, 94h:13001**
(Galligo, André) *see* **Computational algebraic geometry, 94b:13001**
(Heinzer, William J.) *see* **Commutative algebra: syzygies, multiplicities, and birational algebra, 94i:13001**
(Huneke, Craig L.) *see* **Commutative algebra: syzygies, multiplicities, and birational algebra, 94i:13001**
(Kabbaj, Salah-Eddine) *see* **Commutative ring theory, 94h:13001**
(Robbiano, Lorenzo) *see* **Computational algebraic geometry and commutative algebra, 94f:13002**
(Sally, Judith D.) *see* **Commutative algebra: syzygies, multiplicities, and birational algebra, 94i:13001**

Items listed otherwise than by author

Commutative algebra: syzygies, multiplicities, and birational algebra ★ Commutative algebra: syzygies, multiplicities, and birational algebra. **94i:13001**
Commutative ring theory ★ Commutative ring theory. **94h:13001**
Computational algebraic geometry ★ Computational algebraic geometry. **94b:13001**
Computational algebraic geometry and commutative algebra ★ Computational algebraic geometry and commutative algebra. **94f:13002**
Conference:
Commutative Algebra ★ Commutative algebra: syzygies, multiplicities, and birational algebra. **94i:13001**
Commutative Ring Theory ★ Commutative ring theory. **94h:13001**
Computational Algebraic Geometry ★ Computational algebraic geometry. **94b:13001**
Computational Algebraic Geometry and Commutative Algebra ★ Computational algebraic geometry and commutative algebra. **94f:13002**
Contemporary Mathematics ★ Commutative algebra: syzygies, multiplicities, and birational algebra. **94i:13001**
Cortona ★ Computational algebraic geometry and commutative algebra. **94f:13002**
Fès ★ Commutative ring theory. **94h:13001**
Nice ★ Computational algebraic geometry. **94b:13001**
Progress in Mathematics ★ Computational algebraic geometry. **94b:13001**
Ring theory of blow-up rings ★ Blow-up rings no kanronteki kenkyū. (Japanese) [The ring theory of blow-up rings] **94b:13002**
South Hadley, MA ★ Commutative algebra: syzygies, multiplicities, and birational algebra. **94i:13001**
Symposia Mathematica ★ Computational algebraic geometry and commutative algebra. **94f:13002**
Symposium:
Ring Theory of Blow-up Rings ★ Blow-up rings no kanronteki kenkyū. (Japanese) [The ring theory of blow-up rings] **94b:13002**

Items with secondary classifications in 13–06

(Abhyankar, Shreeram S.) *see* **Algebraic geometry and its applications, 94m:14002**
(Bajaj, Chanderjit L.) *see* **Algebraic geometry and its applications, 94m:14002**
(Farkas, Daniel R.) *see* **Computational algebra, 94e:16002**
(Fischer, Klaus G.) *see* **Computational algebra, 94e:16002**
(Green, Edward L.) *see* **Computational algebra, 94e:16002**
(Loustaunau, Philippe) *see* **Computational algebra, 94e:16002**
(Shapiro, Jay) *see* **Computational algebra, 94e:16002**

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Algebraic geometry and its applications ★ Algebraic geometry and its applications. **94m:14002**
Bibliography:
Abhyankar, Shreeram Shankar ★ Algebraic geometry and its applications. **94m:14002**
Birthday:
Abhyankar, Shreeram Shankar ★ Algebraic geometry and its applications. **94m:14002**
Computational algebra ★ Computational algebra. **94e:16002**
Conference:
Algebraic Geometry and its Applications ★ Algebraic geometry and its applications. **94m:14002**
Computational Algebra ★ Computational algebra. **94e:16002**
Fairfax, VA ★ Computational algebra. **94e:16002**
West Lafayette, IN ★ Algebraic geometry and its applications. **94m:14002**

13Axx General commutative ring theory

13A02 Graded rings [see also 16W50]

Items with secondary classifications in 13A02

Adams, W. W. (*with* Boyle, A.; Loustaunau, Philippe) Transitivity for weak and strong Gröbner bases. (English summary) **94b:68064**
Boyle, A. *see* **Adams, W. W.; et al., 94b:68064**
Chibloun, Rachid (*with* Micali, Artibano) Krull dimension of graded algebras. **94k:13018**
Jespers, Eric (*with* Wauters, P.) Pairs of rings with a bijective correspondence between the prime spectra. (English summary) **94h:13002**
Loustaunau, Philippe *see* **Adams, W. W.; et al., 94b:68064**
Micali, Artibano *see* **Chibloun, Rachid, 94k:13018**
Oda, Susumu On Picard groups of Z-graded domains. **94k:13023**
Shen, Ba Zhong Solving a congruence on a graded algebra by a subresultant sequence and its application. (English summary) **94a:94009**
Tomari, Masataka A characterization of log terminal normal graded rings in terms of Pinkham-Demazure's construction. **94k:14002**
Wauters, P. *see* **Jespers, Eric, 94h:13002**

13A05 Divisibility

Gilmer, Robert Commutative rings with periodic multiplicative semigroup. **94e:13002**

Items with secondary classifications in 13A05

Anderson, D. D. (*with* Anderson, David F.; Zafrullah, Muhammad) Factorization in integral domains. II. (English summary) **94c:13019**
Anderson, David F. *see* **Anderson, D. D.; et al., 94c:13019**
Shamash, Josephine (*with* Smith, Stuart T.) Embedding GCD domains in Bézout domains. (English summary) **94d:13022**
Smith, Stuart T. *see* **Shamash, Josephine, 94d:13022**
Zafrullah, Muhammad *see* **Anderson, D. D.; et al., 94c:13019**

13A10 Radical theory

Gardner, B. J. Strongly hereditary strict radicals and quotient categories of commutative rings. **94m:13001**

13A15 Ideals; multiplicative ideal theory

Anderson, D. D. A note on minimal prime ideals. (English summary) **94k:13001**
Fontana, Marco (*with* Izelgue, Lahoucine; Kabbaj, Salah-Eddine) Quelques propriétés des chaînes d'idéaux dans les anneaux $A + XB[X]$. [Some properties of chains of ideals in the rings $A + XB[X]$] **94k:13002**
Heinzer, William J. (*with* Johnston, Bernard; Lantz, David C.) First coefficient domains and ideals of reduction number one. **94g:13001**
Izelgue, Lahoucine *see* **Fontana, Marco; et al., 94k:13002**
Jespers, Eric (*with* Wauters, P.) Pairs of rings with a bijective correspondence between the prime spectra. (English summary) **94h:13002**
Johnston, Bernard *see* **Heinzer, William J.; et al., 94g:13001**
Kabbaj, Salah-Eddine *see* **Fontana, Marco; et al., 94k:13002**
Kim, Joong-Ho Some remarks on primal ideals. **94i:13002**
Lantz, David C. *see* **Heinzer, William J.; et al., 94g:13001**
Oostra V., Arnold Topology of the spectrum in linear systems. (Spanish)
Picavet, Gabriel Soundable subsets of a spectrum and depth. (*see* **94h:13001**)
Roitman, Moshe Counterexamples for certain star operations on ideals. (English summary) **94f:13003**
Taherizadeh, A.-J. A note on reductions of ideals relative to an Artinian module. **94d:13002**
Wauters, P. *see* **Jespers, Eric, 94h:13002**

Items with secondary classifications in 13A15

Anderson, D. D. (*with* Zafrullah, Muhammad) On t-invertibility. III. **94c:13023**
Barucci, Valentina (*with* Gabelli, Stefania; Roitman, Moshe) The class group of a strongly Mori domain. **94k:13020**
Dobbs, David E. (*with* Zafrullah, Muhammad) Some locally trivial star-theoretic properties of integral domains. (English summary) **94k:13031**
Fontana, Marco (*with* Huckaba, James A.; Papick, Ira J.; Roitman, Moshe) Prüfer domains and endomorphism rings of their ideals. **94f:13011**
Gabelli, Stefania Divisorial ideals and class groups of Mori domains. **94k:13021**
— *see also* **Barucci, Valentina; et al., 94k:13020**
Houston, Evan G. Prime t-ideals in $R[X]$. (English summary) **94k:13028**
Huckaba, James A. *see* **Fontana, Marco; et al., 94f:13011**
Letichevskiĭ, Aleksandr Adol'fovich (*with* L'vov, M. S.) Discovery of invariant equalities in programs over data fields. (English summary) **94h:68052**
L'vov, M. S. *see* **Letichevskiĭ, Aleksandr Adol'fovich, 94h:68052**
McAdam, Stephen Uppers in $R[X]$. **94j:13007**
Oda, Susumu (*with* Sugatani, Takasi; Yoshida, Ken-ichi) On extensions $R[\alpha] \cap R[\alpha^{-1}]$ of Noetherian domains R. **94j:13006**
Papick, Ira J. *see* **Fontana, Marco; et al., 94f:13011**
Roitman, Moshe *see* **Fontana, Marco; et al., 94f:13011** *and* **Barucci, Valentina; et al., 94k:13020**
Sugatani, Takasi *see* **Oda, Susumu; et al., 94j:13006**
Yoshida, Ken-ichi *see* **Oda, Susumu; et al., 94j:13006**
Zafrullah, Muhammad *see* **Anderson, D. D., 94c:13023** *and* **Dobbs, David E., 94k:13031**

13A18 Valuations and their generalizations

Noh, Sunsook Sequence of valuation ideals of prime divisors of the second kind in 2-dimensional regular local rings. **94d:13003**
Salce, Luigi Valuation domains with superdecomposable pure injective modules. **94d:13004**

Items with secondary classifications in 13A18

Eklof, Paul C. (*with* Shelah, Saharon) On a conjecture regarding nonstandard uniserial modules. **94a:13007**
Garg, Usha *see* **Khanduja, Sudesh K., 94i:12002**
Khanduja, Sudesh K. (*with* Garg, Usha) Residue fields of valued function fields of conics. (English summary) **94i:12002**
Knop, Friedrich Über Bewertungen, welche unter einer reduktiven Gruppe invariant sind. (English summary) [On valuations which are invariant under a reductive group] **94a:14050**
Kontolatou, Angeliki *see* **Močkoř, Jiří, 94m:06018** *and* **94m:06019**
Močkoř, Jiří (*with* Kontolatou, Angeliki) Quasi-divisors theory of partly ordered groups. **94m:06019**
— (*with* Kontolatou, Angeliki) Groups with quasi-divisors theory. (English summary) **94m:06018**
de la Puente, M. J. The compatible valuation rings of the coordinate ring of the real plane. (English summary) **94k:13029**
Sekiguchi, Koji Ringed spaces of valuation rings and projective limits of schemes. **94f:14001**
Shelah, Saharon *see* **Eklof, Paul C., 94a:13007**
Zanardo, Paolo Constructions of Manis valuation rings. **94h:13014**

13A20 Brauer groups [see also 12Gxx, 16H05]

Caenepeel, Stefaan (*with* Van Oystaeyen, Freddy) Quadratic forms with values in invertible modules. (English summary) **94j:13001**
Chen, Cheng Xiang The Brauer ring of a commutative ring. (English summary) **94j:13002**
Korolev, A. V. On the structure of the Brauer group of a semilocal ring of geometric type. (Russian. Russian summary) **94e:13003**
Mammone, Pasquale (*with* Merkur'ev, A. S.) On the corestriction of p^n-symbol. **94a:13001**
Merkur'ev, A. S. *see* **Mammone, Pasquale, 94a:13001**
Van Oystaeyen, Freddy *see* **Caenepeel, Stefaan, 94j:13001**

Items with secondary classifications in 13A20

Alonso Álvarez, J. N. (*with* Fernández Vilaboa, J. M.) Galois H-objects with a normal basis in closed categories. A cohomological interpretation. (English summary) **94k:18010**
DeMeyer, Frank (*with* Regnier, Kim) Examples of reflexive modules. **94j:13010**
— (*with* Ford, Tim; Miranda, Rick) Rational singularities and the Brauer group. **94m:14042**
Fernández Vilaboa, J. M. *see* **Alonso Álvarez, J. N., 94k:18010**
Ford, Tim *see* **DeMeyer, Frank; et al., 94m:14042**
Harari, David Groupe de Brauer de certaines hypersurfaces. (French summary) [Brauer group of certain hypersurfaces] **94a:11094**
Helmstetter, Jacques (*with* Micali, Artibano) Relations between Witt rings and Brauer groups. **94m:11051**
Hürlimann, Werner A short proof of the Albert-Brauer-Hasse-Noether theorem. (English summary) **94a:12011**
Kim, Jae-Gyeom Central separable algebras over local-global rings. I. **94c:16022**
— (*with* Lee, Byung Soo) Central separable algebras over local-global rings. II. **94g:16020**
Lee, Byung Soo *see* **Kim, Jae-Gyeom, 94g:16020**
Micali, Artibano *see* **Helmstetter, Jacques, 94m:11051**
Miranda, Rick *see* **DeMeyer, Frank; et al., 94m:14042**
Regnier, Kim *see* **DeMeyer, Frank, 94j:13010**
Saltman, David J. The Schur index and Moody's theorem. (English summary) **94k:16049**
Swinnerton-Dyer, H. P. F. The Brauer group of cubic surfaces. **94a:14038**

13A30 Associated graded rings of ideals (Rees ring, form ring) and related topics

Goto, Shiro (*with* Nishida, Koji; Shimoda, Yasuhiro) The Gorensteinness of the symbolic blow-ups for certain space monomial curves. **94a:13002**
— (*with* Nishida, Koji; Watanabe, Keiichi) Non-Cohen-Macaulay symbolic blow-ups for space monomial curves and counterexamples to Cowsik's question. **94d:13005**
Herrmann, Manfred (*with* Hyry, Eero; Ribbe, Jürgen) On the Cohen-Macaulay and Gorenstein properties of multigraded Rees algebras. **94h:13003**
— (*with* Ribbe, Jürgen; Zarzuela Armengou, Santiago) On the Gorenstein property of Rees and form rings of powers of ideals. **94f:13004**
Huckaba, Sam (*with* Marley, Thomas) Depth properties of Rees algebras and associated graded rings. **94d:13006**
Hyry, Eero On the Gorenstein property of the associated graded ring of a power of an ideal. (English summary) **94e:13004**
— *see also* **Herrmann, Manfred; et al., 94h:13003**
Katz, Daniel (*with* Verma, Jugal) On the multiplicity of blow-ups associated to almost complete intersection space curves. **94k:13003**
Kurano, Kazuhiko Positive characteristic finite generation of symbolic Rees algebras and Roberts' counterexamples to the fourteenth problem of Hilbert. **94k:13004**
Marley, Thomas *see* **Huckaba, Sam, 94d:13006**
Nishida, Koji *see* **Goto, Shiro; et al., 94a:13002** *and* **94d:13005**
Noh, Sunsook (*with* Vasconcelos, Wolmer V.) The S_2-closure of a Rees algebra. (English summary) **94a:13003**
Ooishi, Akira On the Gorenstein property of the associated graded ring and the Rees algebra of an ideal. **94e:13005**
Ratliff, L. J., Jr. I-independent elements and polynomial form rings. (English summary) **94d:13007**
Ribbe, Jürgen *see* **Herrmann, Manfred; et al., 94f:13004** *and* **94h:13003**
Shimoda, Yasuhiro *see* **Goto, Shiro; et al., 94a:13002**
Tiraş, Yücel Integral closures of ideals in the Rees ring. **94d:13008**
Ulrich, Bernd (*with* Vasconcelos, Wolmer V.) The equations of Rees algebras of ideals with linear presentation. **94g:13002**
Vasconcelos, Wolmer V. *see* **Noh, Sunsook, 94a:13003** *and* **Ulrich, Bernd, 94g:13002**
Verma, Jugal *see* **Katz, Daniel, 94k:13003**

Watanabe, Keiichi *see* **Goto, Shiro; et al., 94d:13005**
Zarzuela Armengou, Santiago On the structure of the canonical module of the Rees algebra and the associated graded ring of an ideal. (English summary) **94e:13006**
— *see also* **Herrmann, Manfred; et al., 94f:13004**

Items with secondary classifications in 13A30

Caenepeel, Stefaan (*with* Van Oystaeyen, Freddy) Quadratic forms with values in invertible modules. (English summary) **94j:13001**
Ding, Songqing The associated graded ring and the index of a Gorenstein local ring. (English summary) **94f:13014**
Herrmann, Manfred (*with* Ribbe, Jürgen; Schenzel, P.) On the Gorenstein property of form rings. **94d:13025**
Iarrobino, Anthony A. Associated graded algebra of a Gorenstein Artin algebra. (English summary) **94f:13009**
Ngô Việt Trung Filter-regular sequences and multiplicity of blow-up rings of ideals of the principal class. **94i:13011**
Patil, Dilip P. Minimal sets of generators for the relation ideals of certain monomial curves. (English summary) **94h:14026**
Ribbe, Jürgen *see* **Herrmann, Manfred; et al., 94d:13025**
Schenzel, P. *see* **Herrmann, Manfred; et al., 94d:13025**
Simis, Aron (*with* Ulrich, Bernd; Vasconcelos, Wolmer V.) Jacobian dual fibrations. **94d:13018**
Ulrich, Bernd *see* **Simis, Aron; et al., 94d:13018**
Van Oystaeyen, Freddy *see* **Caenepeel, Stefaan, 94j:13001**
Vasconcelos, Wolmer V. *see* **Simis, Aron; et al., 94d:13018**

13A35 Characteristic p methods (Frobenius endomorphism) and reduction to characteristic p [see also 13Mxx]

Fedder, Richard A Frobenius characterization of rational singularity in 2-dimensional graded rings. **94b:13003**
Hübl, Reinhold (*with* Kunz, Ernst) On algebraic varieties over fields of prime characteristic. **94k:13005**
Kunz, Ernst *see* **Hübl, Reinhold, 94k:13005**
Smith, K. E. Tight closure of parameter ideals. **94k:13006**
Vijaylaxmi, Trivedi A local Bertini theorem in mixed characteristic. (English summary) **94m:13002**

Items with secondary classifications in 13A35

André, Michel Homomorphismes réguliers en caractéristique p. (English and French summaries) [Regular homomorphisms in characteristic p] **94e:13026**
Maloo, Alok Kumar Generators for a maximally differential ideal in positive characteristic. **94m:13009**

13A50 Invariant theory [see also 14D25]

Adler, Allan Invariants of $\mathrm{PSL}_2(\mathbf{F}_{11})$ acting on $\mathbf{C}^5$. (English summary) **94c:13001**
Benson, David John ★ Polynomial invariants of finite groups. (English summary) **94j:13003**
Broer, Bram Classification of Cohen-Macaulay modules of covariants for systems of binary forms. (English summary) **94b:13004**
Grosshans, Frank D. The symbolic method and representation theory. **94d:13009**
Levstein, Fernando Invariant polynomials for a maximal unipotent subgroup of $\mathrm{SL}(n, \mathbf{C})$. (English summary) **94m:13003**
Rybnikov, G. L. Vector invariants of the groups $\mathrm{GL}(n, \mathbf{C}[\![t]\!])$ and $\mathrm{Sp}(2m, \mathbf{C}[\![t]\!])$. (Russian) **94e:13007**
Schmid, Barbara J. Finite groups and invariant theory. **94c:13002**
Sturmfels, Bernd ★ Algorithms in invariant theory. **94m:13004**
Weyman, Jerzy On the Hilbert functions of multiplicity ideals. **94i:13003a**
— Gordan ideals in the theory of binary forms. **94i:13003b**
Zhu, Chen-bo Examples of invariant theory associated with $\mathfrak{u}(2,2)$, $\mathfrak{sp}(4,\mathbf{R})$, $\mathfrak{o}^*(4)$. **94e:13008**

Items with secondary classifications in 13A50

Brown, Kenneth A. (*with* Lorenz, Martin) Grothendieck groups of invariant rings: examples. (English summary) **94k:13022**
Brylinski, Ranee Kathryn Matrix concomitants with the mixed tensor model. **94h:14048**
Greuel, Gert-Martin (*with* Pfister, Gerhard) Geometric quotients of unipotent group actions. **94e:14064**
Hu, Shou Jen Fixed fields of some unipotent groups. (English summary) **94f:20082**
Lorenz, Martin *see* **Brown, Kenneth A., 94k:13022**
Pfister, Gerhard *see* **Greuel, Gert-Martin, 94e:14064**
Saito, Kyoji On a linear structure of the quotient variety by a finite reflexion group. **94k:32059**
Seshadri, C. S. Invariant theory. **94c:14042**
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Wehlau, David L. When is a ring of torus invariants a polynomial ring? (English summary) **94i:14050**
Yau, Stephen S.-T. (*with* Yu, Yung) Gorenstein quotient singularities in dimension three. (English summary) **94b:14045**
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Anderson, D. D. (*with* Naseer, M.) Beck's coloring of a commutative ring. (English summary) **94e:13009**
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Czech, R. *see* **Kwaśniewski, A. K., 94e:13010**
DeMeyer, Frank (*with* Kakakhail, Haniya) Generalized equivalence of matrices over normal domains. **94m:13005**
Dong, Xue Dong On restricted (p)-rings. (English summary) **94i:13004**
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Kantroo, Manoj K. *see* **Gupta, K. C.**
Kohli, J. K. (*with* Kumar, Rajesh) Fuzzy prime spectrum of a ring. II. (English summary) **94k:13007**
Kumar, Rajesh Corrigendum: "Certain fuzzy ideals of rings redefined" [Fuzzy Sets and Systems **46** (1992), no. 2, 251–260; MR 93d:13010].
— *see also* **Kohli, J. K., 94k:13007**
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Liu, Shao Wu (*with* Shang, Xian) A class of commutative rings with a finite number of zero divisors. (Chinese. English and Chinese summaries) **94m:13007**
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Peng, Chang-Shyh *see* **Mordeson, John N., 94j:04013**
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Waterhouse, William C. Retractions of separable commutative algebras. **94b:16024**
Yamaleev, R. M. *see* **Fleury, N.; et al., 94m:30093**

13Bxx Ring extensions and related topics

13B02 Extension theory

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— (*with* Yoshida, Ken-ichi) On flatness of birational prime-extensions of normal domains. **94j:13005**
— (*with* Sato, Junro; Yoshida, Ken-ichi) High degree anti-integral extensions of Noetherian domains. **94f:13005**
Sato, Junro *see* **Oda, Susumu; et al., 94f:13005**
Sobczyk, Garret Jordan form in associative algebras. (English summary) (*see* **94h:81005**)
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Daigle, D. Purely inseparable extensions of $\mathbf{k}[X, Y]$. (English summary) **94g:13012**
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Roitman, Moshe Polynomial extensions of atomic domains. (English summary) **94e:13042**
Sato, Junro Denominator ideals and the extensions of Noetherian domains. **94j:13009**

13B05 Galois theory (commutative rings)

Herzer, A. N-zyklische Algebren. [N-cyclic algebras] **94k:13008**

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Greither, Cornelius ★ Cyclic Galois extensions of commutative rings. **94k:11121**
Raphael, R. On algebraic closures. (English summary) **94e:13013**
Thérond, Jean-Daniel Extensions cycliques cubiques monogènes de l'anneau des entiers d'un corps quadratique imaginaire. [Monogenic cubic cyclic extensions of the ring of integers of an imaginary quadratic field] **94g:11093**
Vonessen, Nikolaus Mapping Galois extensions into division algebras. **94a:16066**

13B10 Morphisms and derivations

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Maloo, Alok Kumar Generators for a maximally differential ideal in positive characteristic. **94m:13009**
Maşek, Vladimir A formula involving logarithmic derivations in positive characteristic. **94c:13004**
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— (*with* Tamone, Grazia) On the derivations of the homogeneous coordinate ring of a monomial curve in $\mathbf{P}^d_k$. **94c:13005**
— (*with* Tamone, Grazia) On the extension of derivations to some closures. **94e:13011**

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Zheng, Yu Mei A generalization of the Hochschild formula. (Chinese. English and Chinese summaries) **94a:13004**

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Brumatti, Paulo (*with* de Souza Doering, Ada Maria; Lequain, Yves) Differential simplicity, Cohen-Macaulayness and formal prime divisors. (English summary) **94a:13022**
Heitmann, Raymond C. Corrigendum: "On the Jacobian conjecture" [J. Pure Appl. Algebra **64** (1990), no. 1, 35–72; MR 91c:14018]. **94h:14014**
Jelonek, Zbigniew Irreducible identity sets for polynomial automorphisms. **94c:14014**
Józefiak, Tadeusz (*with* Sagan, Bruce E.) Basic derivations for subarrangements of Coxeter arrangements. (English summary) **94j:52023**
Krasiński, Tadeusz (*with* Spodzieja, Stanisław) On linear differential operators related to the n-dimensional Jacobian conjecture. **94h:14015**
Lang, Jeffrey (*with* Mandal, Satyagopal) On Jacobian n-tuples in characteristic p. **94a:14010**
Lequain, Yves *see* **Brumatti, Paulo; et al., 94a:13022**
Mandal, Satyagopal *see* **Lang, Jeffrey, 94a:14010**
Rónyai, Lajos Galois groups and factoring polynomials over finite fields. **94a:68055**
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Vasconcelos, Wolmer V. Jacobian matrices and constructions in algebra. (*see* **94b:68002**)

13B21 Integral dependence

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Lucas, Thomas G. The ring of finite fractions. **94k:13010**
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Sangare, Daouda Some aspects of the asymptotic theory of ideals. Generalization to filtrations. **94k:13011**

13B22 Integral closure; integrally closed rings, related rings (Japanese, etc.)

Aberbach, Ian M. (*with* Hochster, Melvin; Huneke, Craig L.) Localization of tight closure and modules of finite phantom projective dimension. **94h:13005**
Brennan, Joseph P. (*with* Vasconcelos, Wolmer V.) Effective computation of the integral closure of a morphism. (English summary) **94e:13012**
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— Reduced morphisms and Nagata rings. **94c:13006**
Oda, Susumu (*with* Sugatani, Takasi; Yoshida, Ken-ichi) On extensions $R[\alpha] \cap R[\alpha^{-1}]$ of Noetherian domains R. **94j:13006**
Picavet-L'Hermitte, Martine t-closed rings. **94k:13012**
Raphael, R. On algebraic closures. (English summary) **94e:13013**
Sharp, R. Y. (*with* Tiraş, Yücel) Asymptotic behaviour of integral closures of ideals relative to Artinian modules. **94b:13007**
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Molinelli, Silvia (*with* Tamone, Grazia) On the extension of derivations to some closures. **94e:13011**
Nanda, V. C. Integral bases with restricted coefficients and other results for extensions of Dedekind domains. **94c:13018**
Roberts, Leslie G. (*with* Singh, Balwant) Subintegrality, invertible modules and the Picard group. **94a:13018**
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Tiraş, Yücel Integral closures of ideals in the Rees ring. **94d:13008**
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— Constructions in commutative algebra. **94m:13033**
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13B25 Polynomials over commutative rings

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Izvercian, P. N. (*with* Popescu, Cornel) A-modules of functions representable on algebras. (Romanian summary) (*see* **94j:00024**)
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Items with secondary classifications in 13B25

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Anderson, D. D. (*with* Zafrullah, Muhammad) On t-invertibility. III. **94c:13023**
Ayache, Ahmed Sous-anneaux de la forme $D + I$ d'une K-algèbre intègre. [Subrings of the form $D + I$ of an integral K-algebra] **94j:13011**
Chabert, Jean-Luc Dérivées et différences divisées à valeurs entières. [Integer-valued derivatives and divided differences] **94c:12012**
— Polynomials whose derivatives are integer-valued in number fields. (English summary) **94m:11126**
Echi, Othman C-anneaux, E-anneaux et formule de la dimension. [C-rings, E-rings and dimension formula] **94j:13012**
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13B30 Quotients and localization

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Hutson, H. L. Finite-dimensional rings of quotients. (English summary) **94e:13014**
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Items with secondary classifications in 13B30

Bayer, Dave (*with* Galligo, André; Stillman, Mike) Gröbner bases and extension of scalars. **94j:13021**
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Hager, Anthony W. (*with* Martinez, Jorge[2]) Functorial rings of quotients. I. (English summary) **94k:18007**
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13B35 Completion [see also 13J10]

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13B40 Étale extensions and Henselization; Artin approximation [see also 13J15, 14B12]

Radu, Nicolae Regularity, flatness and approximation property. **94d:13011**

Items with secondary classifications in 13B40

Brumatti, Paulo (*with* de Souza Doering, Ada Maria; Lequain, Yves) Differential simplicity, Cohen-Macaulayness and formal prime divisors. (English summary) **94a:13022**
Lequain, Yves *see* **Brumatti, Paulo; et al., 94a:13022**
Soh, Sun Tae On étale morphisms: a geometric criterion and its applications. (English summary) **94c:14017**
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Aberbach, Ian M. (*with* Hochster, Melvin; Huneke, Craig L.) Localization of tight closure and modules of finite phantom projective dimension. **94h:13005**
Hochster, Melvin *see* **Aberbach, Ian M.; et al., 94h:13005**
Huneke, Craig L. *see* **Aberbach, Ian M.; et al., 94h:13005**
Smith, K. E. Tight closure of parameter ideals. **94k:13006**

13Cxx Theory of modules and ideals

13C05 Structure, classification theorems

Abian, Alexander (*with* Kemp, Paula A.; Sverchkov, S. R.) An iterative construction of bases for finitely generated modules over principal ideal domains.
Baetica, Cornel Almost Laskerian rings and module. **94e:13015**
Haefner, Jeremy Irreducible maps of commutative rings. (English summary) **94b:13008**
Kemp, Paula A. *see* **Abian, Alexander; et al.**

McAdam, Stephen Uppers in $R[X]$. **94j:13007**
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Xu, Jin Zhong A theorem on Artinian rings. (English summary) **94m:13012**

Items with secondary classifications in 13C05

Cipu, Mihai (*with* Herzog, Jürgen; Popescu, Dorin) Indecomposable generalized Cohen-Macaulay modules. **94e:13019**
Gilmer, Robert Commutative rings with periodic multiplicative semigroup. **94e:13002**
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13C10 Projective and free modules and ideals [see also 18G05, 19A13]

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Cheng, Fu Chang (*with* Wang, Ming Yi) Homological dimension of G-Matlis dual modules over semilocal rings. **94e:13016**
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Items with secondary classifications in 13C10

DeMeyer, Frank (*with* Kakakhail, Haniya) Generalized equivalence of matrices over normal domains. **94m:13005**
Huneke, Craig L. (*with* Ulrich, Bernd) General hyperplane sections of algebraic varieties. **94b:14046**
Kakakhail, Haniya *see* **DeMeyer, Frank, 94m:13005**
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13C11 Injective and flat modules and ideals [see also 18G05]

Duraivel, T. *see* **Mangayarcarassy, S., 94c:13007**
Enochs, Edgar E. (*with* Jenda, Overtoun M. G.) h-divisible and cotorsion modules over one-dimensional Gorenstein rings. **94j:13008**
Jenda, Overtoun M. G. *see* **Enochs, Edgar E., 94j:13008**
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Wang, Ming Yi (*with* Zhang, Gui Ming) Homological properties of generalized Matlis reflexive modules over commutative semilocal rings. (Chinese. English and Chinese summaries) **94k:13014**
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Xu, Jin Zhong A theorem on Artinian rings. (English summary) **94m:13012**

13C12 Torsion modules and ideals

Adkins, William A. Primary decomposition of torsion $R[X]$-modules. (English summary) **94m:13014**
Tushnitskii, I. Ya. Rings with locally defined torsions. (Russian. Russian summary) **94a:13006**

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13C13 Other special types

Choi, Chang Woo (*with* Kim, Eun Sup) Some remarks on multiplication modules. **94k:13015**
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Goldsmith, B. (*with* Zanardo, Paolo) The Walker endomorphism algebra of a mixed module. (English summary) **94h:13006**
Hermida Alonso, José Á. (*with* Pisonero, Miriam) Invariant factors of an endomorphism and finite free resolutions. (English summary) **94e:13017**
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Wiegand, Roger Local-global theory over regular domains of dimension two. **94c:13009**
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Kamoi, Yuuji Defining ideals of Cohen-Macaulay semigroup rings. **94a:13023**
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Simis, Aron (*with* Ulrich, Bernd; Vasconcelos, Wolmer V.) Jacobian dual fibrations. **94d:13018**
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13C14 Cohen-Macaulay modules [see also 13H10]

Cipu, Mihai (*with* Herzog, Jürgen; Popescu, Dorin) Indecomposable generalized Cohen-Macaulay modules. **94e:13019**
Herzog, Jürgen *see* **Cipu, Mihai; et al., 94e:13019**
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Zarzuela Armengou, Santiago Chain conditions arising from the study of non-finitely generated modules over commutative rings. **94k:13017**

Items with secondary classifications in 13C14

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— A note on the index of Cohen-Macaulay local rings. **94b:13014**
— (*with* Solberg, Øyvind) The Maranda theorem and liftings of modules. **94b:16007**
— The associated graded ring and the index of a Gorenstein local ring. (English summary) **94f:13014**
Herzog, Jürgen (*with* Martsinkovsky, Alex) Gluing Cohen-Macaulay modules with applications to quasihomogeneous complete intersections with isolated singularities. **94h:14006**
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Popescu, Dorin Liftings of finite injective dimension modules. **94g:13015**
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Tang, Zhong Ming Local homology theory for Artinian modules. **94m:13024**
— *see also* **Sharp, R. Y., 94e:13028**

13C15 Dimension theory, depth, related rings (catenary, etc.)

Ayache, Ahmed Sous-anneaux de la forme $D + I$ d'une K-algèbre intègre. [Subrings of the form $D + I$ of an integral K-algebra] **94j:13011**
Chiboun, Rachid (*with* Micali, Artibano; Olivier, Jean-Pierre) Sur la dimension des algèbres symétriques. (English summary) [On the dimension of symmetric algebras] **94d:13014**
— (*with* Micali, Artibano) Krull dimension of graded algebras. **94k:13018**
Echi, Othman C-anneaux, E-anneaux et formule de la dimension. [C-rings, E-rings and dimension formula] **94j:13012**
— The altitude formula. **94k:13019**
Girolami, Florida AF-rings and locally Jaffard rings. **94m:13017**
Micali, Artibano *see* **Chiboun, Rachid; et al., 94d:13014** *and* **94k:13018**
Olivier, Jean-Pierre *see* **Chiboun, Rachid; et al., 94d:13014**
Rossi, Fabio (*with* Spangher, W.) Computation of the openness of some loci of modules. **94e:13020**
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Cangemi, Maria Rosa (*with* Imbesi, Maurizio) Some problems on P-morphisms in codimension and codepth k. (English summary) **94k:13013**
Fontana, Marco (*with* Izelgue, Lahoucine; Kabbaj, Salah-Eddine) Quelques propriétés des chaînes d'idéaux dans les anneaux $A + XB[X]$. [Some properties of chains of ideals in the rings $A + XB[X]$] **94k:13002**
Houston, Evan G. Prime t-ideals in $R[X]$. (English summary) **94k:13028**
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Gabelli, Stefania Divisorial ideals and class groups of Mori domains. **94k:13021**
— *see also* **Barucci, Valentina; et al., 94k:13020**
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Dobbs, David E. (*with* Zafrullah, Muhammad) Some locally trivial star-theoretic properties of integral domains. (English summary) **94k:13031**
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Bolondi, Giorgio (*with* Migliore, Juan Carlos) The Lazarsfeld-Rao property on an arithmetically Gorenstein variety. (English summary) **94a:13008**
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Modak, M. R. Combinatorial meaning of the coefficients of a Hilbert polynomial. (English summary) **94e:13022**
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Oneto, Anna (*with* Zatini, E.) Remarks on Nash blowing-up. (English summary) **94d:14013**
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Sangare, Daouda Some aspects of the asymptotic theory of ideals. Generalization to filtrations. **94k:13011**
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Buchweitz, Ragnar-Olaf *see* **Avramov, Luchezar L., 94a:13011**
Cavaliere, M. P. (*with* Rossi, M. E.; Valla, Giuseppe) The Green-Lazarsfeld conjecture for $n+4$ points in $\mathbf{P}^n_k$. (English summary) **94e:14066**
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Doncel Juárez, José Luis (*with* R.-Grandjeán L.-Valcárcel, Alfredo; Vale Gonsalves, María J.) On the homology of commutative algebras. **94b:13011**
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Chen, Jian Long (*with* Ding, Nan Qing) The weak global dimension of commutative coherent rings. (English summary) **94d:13015**
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Huneke, Craig L. *see* **Aberbach, Ian M.; et al., 94h:13005**
Jothilingam, P. (*with* Mangayarcarassy, S.) Regular sequences, projective dimension and criteria for regularity of local rings. **94f:13013**
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13D10 Deformations and infinitesimal methods [see also 14B12, 14D15, 16S80, 32Gxx]

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13D15 Grothendieck groups, K-theory [see also 14C35, 18F30, 19-XX]

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13D45 Local cohomology [see also 14B15]

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13E05 Noetherian rings and modules

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13E10 Artinian rings and modules, finite-dimensional algebras

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Sharp, R. Y. (*with* Tiraş, Yücel) Asymptotic behaviour of integral closures of ideals relative to Artinian modules. **94b:13007**
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Benson, David John ★ Polynomial invariants of finite groups. (English summary) **94j:13003**
Duraivel, T. *see* **Mangayarcarassy, S., 94c:13007**
Fan, Chun-Tak On the inequality $\mu(mM) \geq \mu(M)$ over polynomial rings. (English summary) **94a:13016**
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Lemmer, A. A. (*with* Naudé, G.) On the number of generators of finitely presented modules over polynomial rings. **94g:13013**
Mangayarcarassy, S. (*with* Duraivel, T.) A note on flat modules and a theorem of Jøndrup. **94c:13007**
Naudé, G. *see* **Lemmer, A. A., 94g:13013**
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Okon, James S. (*with* Vicknair, J. Paul) One-dimensional monoid rings with n-generated ideals. (English summary) **94i:20126**
Scrivanti, Susana On the λ-dimension of Cartesian squares. **94j:13013**
Vicknair, J. Paul *see* **Okon, James S., 94i:20126**
Watanabe, Keiichi *see* **Goto, Shiro; et al., 94d:13005**

13E99 None of the above, but in this section

Heinzer, William J. (*with* Lantz, David C.) ACCP in polynomial rings: a counterexample. (English summary) **94i:13010**
Lantz, David C. *see* **Heinzer, William J., 94i:13010**
Lu, Chin-Pi Quasi-Zariski rings. (English summary) **94f:13010**

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Baetica, Cornel Almost Laskerian rings and module. **94e:13015**
Zarzuela Armengou, Santiago Chain conditions arising from the study of non-finitely generated modules over commutative rings. **94k:13017**

13Fxx Arithmetic rings and other special rings [see also 12–XX]

13F05 Dedekind and Prüfer rings and their generalizations

Anderson, D. D. (*with* Mott, J. L.; Park, Jea-Nam) Finitely generated monoids of fractional ideals. **94c:13017**
— (*with* Houston, Evan G.; Zafrullah, Muhammad) t-linked extensions, the t-class group, and Nagata's theorem. (English summary) **94e:13036**
Chapman, Scott T. (*with* Smith, William W.) On the k-HFD property in Dedekind domains with small class group. (English summary) **94h:13011**
— (*with* Smith, William W.) An analysis using the Zaks-Skula constant of element factorizations in Dedekind domains. (English summary) **94e:13037**
Fontana, Marco (*with* Huckaba, James A.; Papick, Ira J.; Roitman, Moshe) Prüfer domains and endomorphism rings of their ideals. **94f:13011**
Halter-Koch, Franz A characterization of Krull rings with zero divisors. (English summary) **94h:13012**
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Huckaba, James A. *see* **Fontana, Marco; et al., 94f:13011**
Loper, K. Alan A note on Dedekind non-D-rings. **94e:13038**
Mott, J. L. *see* **Anderson, D. D.; et al., 94c:13017**
Nanda, V. C. Integral bases with restricted coefficients and other results for extensions of Dedekind domains. **94c:13018**
Okoh, Frank The rank of a completion of a Dedekind domain. (English summary) **94k:13025**
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Park, Jea-Nam *see* **Anderson, D. D.; et al., 94c:13017**
Roitman, Moshe *see* **Fontana, Marco; et al., 94f:13011**
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Chabert, Jean-Luc Dérivées et différences divisées à valeurs entières. [Integer-valued derivatives and divided differences] **94c:12012**
— Polynomials whose derivatives are integer-valued in number fields. (English summary) **94m:11126**
Dobbs, David E. (*with* Zafrullah, Muhammad) Some locally trivial star-theoretic properties of integral domains. (English summary) **94k:13031**
Fröhlich, Albrecht (*with* Taylor, M. J.) ★ Algebraic number theory. (English summary) **94d:11078**
Gerboud, Gilbert Substituabilité d'un anneau de Dedekind. (English and French summaries) [Substitutability of a Dedekind domain] **94e:13039**
Haefner, Jeremy Irreducible maps of commutative rings. (English summary) **94b:13008**
McQuillan, Donald Split primes and integer-valued polynomials. (English summary) **94a:11159**
Oda, Susumu (*with* Sato, Junro; Yoshida, Ken-ichi) High degree anti-integral extensions of Noetherian domains. **94f:13005**
Sato, Junro *see* **Oda, Susumu; et al., 94f:13005**
de Smit, Bart Algebraic numbers with integral power traces. (English summary) **94g:11090**
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Yoshida, Ken-ichi *see* **Oda, Susumu; et al., 94f:13005**
Zafrullah, Muhammad *see* **Dobbs, David E., 94k:13031**
Zanardo, Paolo Constructions of Manis valuation rings. **94h:13014**

13F07 Euclidean rings and generalizations

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Ikeda, Masatoshi On the Euclidean kernel. (English and Turkish summaries) **94k:13026**
Rahimi, Amir M. Rings with an almost division algorithm. (English summary) **94h:13013**
Smith, Stuart T. Building discretely ordered Bezout domains and GCD domains. (English summary) **94g:13010**

Items with secondary classifications in 13F07

Vechtomov, E. M. On the general theory of Euclidean rings. (Russian. Russian summary) **94a:16059**

13F10 Principal ideal rings

Gazaryan, T. G. An example of nonisomorphic commutative chain rings. (Russian) **94a:13015**
Queen, Clifford S. A simple characterization of principal ideal domains. **94f:13012**

Items with secondary classifications in 13F10

Arenas, Francisco G. Transfinite dimension and F-spaces. (English summary) **94k:54067**
Smith, Stuart T. Building discretely ordered Bezout domains and GCD domains. (English summary) **94g:13010**

13F15 Factorial rings, unique factorization domains [see also 14M05]

Anderson, D. D. (*with* Anderson, David F.; Zafrullah, Muhammad) Factorization in integral domains. II. (English summary) **94c:13019**
Anderson, David F. (*with* Chapman, Scott T.; Inman, Faith; Smith, William W.) Factorization in $K[X^2, X^3]$. **94k:13027**
— *see also* **Anderson, D. D.; et al., 94c:13019**
Blass, Josef *see* **Blass, Piotr; et al., 94g:13011**
Blass, Piotr (*with* Blass, Josef; Lang, Jeffrey) Some questions on unique factorization. **94g:13011**
Chapman, Scott T. *see* **Anderson, David F.; et al., 94k:13027**
Inman, Faith *see* **Anderson, David F.; et al., 94k:13027**
Lang, Jeffrey *see* **Blass, Piotr; et al., 94g:13011**
Simis, Aron (*with* Ulrich, Bernd; Vasconcelos, Wolmer V.) Jacobian dual fibrations. **94d:13018**
Smith, William W. *see* **Anderson, David F.; et al., 94k:13027**
Ulrich, Bernd *see* **Simis, Aron; et al., 94d:13018**
Vasconcelos, Wolmer V. *see* **Simis, Aron; et al., 94d:13018**
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Lu, Chin-Pi Quasi-Zariski rings. (English summary) **94f:13010**
Smith, Stuart T. Building discretely ordered Bezout domains and GCD domains. (English summary) **94g:13010**

13F20 Polynomial rings and ideals [see also 11C08]

Chabert, Jean-Luc (*with* Gerboud, Gilbert) Polynômes à valeurs entières et binômes de Fermat. (English and French summaries) [Integer-valued polynomials and Fermat binomials] **94c:13020**
Daigle, D. Purely inseparable extensions of $\mathbf{k}[X, Y]$. (English summary) **94g:13012**
Fan, Chun-Tak On the inequality $\mu(mM) \geq \mu(M)$ over polynomial rings. (English summary) **94a:13016**
Gerboud, Gilbert Substituabilité d'un anneau de Dedekind. (English and French summaries) [Substitutability of a Dedekind domain] **94e:13039**
— *see also* **Chabert, Jean-Luc, 94c:13020**
Houston, Evan G. Prime t-ideals in $R[X]$. (English summary) **94k:13028**
Lemmer, A. A. (*with* Naudé, G.) On the number of generators of finitely presented modules over polynomial rings. **94g:13013**
Moreno Socías, Guillermo Length of polynomial ascending chains and primitive recursiveness. (English summary) **94d:13019**
Naudé, G. *see* **Lemmer, A. A., 94g:13013**
Pfister, Albrecht A new proof of the homogeneous Nullstellensatz for p-fields, and applications to topology. **94m:13027**

Items with secondary classifications in 13F20

Anderson, David F. (*with* Chapman, Scott T.; Inman, Faith; Smith, William W.) Factorization in $K[X^2, X^3]$. **94k:13027**
Bhatwadekar, S. M. (*with* Varma, P. L. N.) Extendibility criterion for a projective module of rank one over $R[T]$ and $R[T, T^{-1}]$. **94a:13005**
Chang, Hai Ch'ao (*with* Wang, Lih Chung) An intersection-theoretical proof of the embedding line theorem. (English summary) **94j:14019**
Chapman, Scott T. *see* **Anderson, David F.; et al., 94k:13027**
Di Francesco, P. (*with* Zuber, J.-B.) Fusion potentials. I. (English summary) **94d:81172**
Dobbs, David E. Rings of formal power series with homeomorphic prime spectra. (English summary) **94a:13017**
Feng, Guo Chen (*with* Zhang, Shu Gong) Reducing the multivariate polynomial system to eigenvalue problem. **94c:15010**
Fischer, Klaus G. (*with* Shapiro, Jay) Generating prime ideals in the Minkowski ring of polytopes. (English summary) **94m:52014**
Fontana, Marco (*with* Izelgue, Lahoucine; Kabbaj, Salah-Eddine) Quelques propriétés des chaînes d'idéaux dans les anneaux $A + XB[X]$. [Some properties of chains of ideals in the rings $A + XB[X]$] **94k:13002**
Halter-Koch, Franz (*with* Reich, Ludwig; Schwaiger, Jens) On products of additive functions. (English summary) **94e:39021**
Heinzer, William J. (*with* Lantz, David C.) ACCP in polynomial rings: a counterexample. (English summary) **94i:13010**
Inman, Faith *see* **Anderson, David F.; et al., 94k:13027**
Izelgue, Lahoucine *see* **Fontana, Marco; et al., 94k:13002**
Kabbaj, Salah-Eddine *see* **Fontana, Marco; et al., 94k:13002**
Lantz, David C. *see* **Heinzer, William J., 94i:13010**
Li, Hongnian On the number of generators of modules over polynomial rings. (English summary) **94h:13010**
McAdam, Stephen Uppers in $R[X]$. **94j:13007**
Morales, Marcel (*with* Simis, Aron) Arithmetically Cohen-Macaulay monomial curves in $\mathbf{P}^3$. **94e:13044**
Reich, Ludwig *see* **Halter-Koch, Franz; et al., 94e:39021**
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Smietanski, F. A parametrized Nullstellensatz. **94i:13017**
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Varma, P. L. N. *see* **Bhatwadekar, S. M., 94a:13005**
Vasconcelos, Wolmer V. Constructions in commutative algebra. **94m:13033**
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13F25 Formal power series rings [see also 13J05]

Dobbs, David E. Rings of formal power series with homeomorphic prime spectra. (English summary) **94a:13017**
Kongsakorn, Kannika *see* **Laohakosol, Vichian; et al., 94c:13021**
Laohakosol, Vichian (*with* Kongsakorn, Kannika; Ubolsri, Patchara) Power series of Eisenstein-Hurwitz-Carlitz type. (English summary) **94c:13021**
Sharif, H. Children products of formal power series. (English summary) **94c:13022**
Ubolsri, Patchara *see* **Laohakosol, Vichian; et al., 94c:13021**
Zurro, M. Angeles The Abhyankar-Jung theorem revisited. (English summary) **94m:13028**

Items with secondary classifications in 13F25

Chiricota, Yves (*with* Labelle, Gilbert) Familles de solutions combinatoires de $y' = 1 + y^2$ et d'équations différentielles autonomes. (English and French summaries) [Families of combinatorial solutions of $y' = 1 + y^2$ and of autonomous differential equations] **94f:05008**
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Ribenboim, Paulo Extension of Hironaka's standard basis theorem for generalized power series. **94d:13029**

13F30 Valuation rings

Bazzoni, Silvana Some properties of direct sums of uniserial modules over valuation domains. (English summary) **94e:13040**
Huber, Roland Continuous valuations. **94e:13041**
de la Puente, M. J. The compatible valuation rings of the coordinate ring of the real plane. (English summary) **94k:13029**
Zanardo, Paolo Constructions of Manis valuation rings. **94h:13014**

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Dai, Zhi Zhong Preorderings and real places of a commutative ring. (Chinese. Chinese summary) **94m:13032**
Dimitrić, Radoslav On the notions of characteristics and type for modules and their applications. (English summary) **94k:13016**
Eklof, Paul C. (*with* Shelah, Saharon) Explicitly nonstandard uniserial modules. (English summary) **94i:13013**
Noh, Sunsook Adjacent integrally closed ideals in dimension two. (English summary) **94d:13023**
Okoh, Frank The rank of a completion of a Dedekind domain. (English summary) **94k:13025**
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13F40 Excellent rings

Heinzer, William J. (*with* Rotthaus, Christel) Formal fibers and complete homomorphic images. (English summary) **94d:13020**
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Andradas, Carlos (*with* Ruiz, Jesús M.) On local uniformization of orderings. **94k:14048**
Radu, Nicolae Regularity, flatness and approximation property. **94d:13011**
Ruiz, Jesús M. *see* **Andradas, Carlos, 94k:14048**
Smith, K. E. Tight closure of parameter ideals. **94k:13006**

13F45 Seminormal rings

Roberts, Leslie G. (*with* Singh, Balwant) Subintegrality, invertible modules and the Picard group. **94a:13018**
Singh, Balwant *see* **Roberts, Leslie G., 94a:13018**

Items with secondary classifications in 13F45

Fontana, Marco (*with* Huckaba, James A.; Papick, Ira J.; Roitman, Moshe) Prüfer domains and endomorphism rings of their ideals. **94f:13011**
Huckaba, James A. *see* **Fontana, Marco; et al., 94f:13011**
Oda, Susumu On Picard groups of Z-graded domains. **94k:13023**
Papick, Ira J. *see* **Fontana, Marco; et al., 94f:13011**
Picavet-L'Hermitte, Martine Minimal order morphisms. (English summary) **94h:13015**
Roitman, Moshe *see* **Fontana, Marco; et al., 94f:13011**
Wiegand, Roger Torsion in Picard groups of affine rings. (English summary) **94m:13013**

13F50 Rings with straightening laws, Hodge algebras

de Alwis, Tilak Properties of Betti numbers of ideals associated to n-gons. **94a:13019**
Hibi, Takayuki Cohen-Macaulay types of partially ordered sets and Möbius functions. (*see* 94d:20002)
Miyazaki, Mitsuhiro An example of an ASL on a distributive lattice whose straightening relations do not give a presentation. (English and Japanese summaries) **94m:13029**

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Abhyankar, Shreeram S. (*with* Joshi, Sanjeevani B.) Generalized coinsertion and standard multitableaux. (English summary) **94c:05071**
Charalambous, Hara Betti numbers and simplicial complexes. **94j:13015**
Green, J. A. Combinatorics and the Schur algebra. (English summary) **94g:05100**
Joshi, Sanjeevani B. *see* **Abhyankar, Shreeram S., 94c:05071**
La Scala, Roberto Gröbner bases and straightening rules for Young bitableaux. (Italian. English summary) **94e:13054**
Raghavan, K. N. Powers of ideals generated by quadratic sequences. (English summary) **94i:13007**
Stanley, Richard P. A monotonicity property of h-vectors and h^*-vectors. (English summary) **94f:52016**

Wagner, David G. Enumeration of functions from posets to chains. (English summary) **94c:05008**
Woodcock, David J. Straightening codeterminants. **94h:05096**

13F99 None of the above, but in this section

Ahsanullah, T. M. G. (*with* Al-Thukair, Fawzi) A characterization of fuzzy neighborhood commutative division rings. (English summary) **94g:13014**
Al-Thukair, Fawzi *see* **Ahsanullah, T. M. G., 94g:13014**
Ng, S. H. (*with* Shum, Kar Ping) The ring $Z[X]$ is not Chinese. (English and Chinese summaries) **94k:13030**
Picavet-L'Hermitte, Martine Minimal order morphisms. (English summary) **94h:13015**
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Martinez, Jorge² $C(X, Z)$ revisited. (English summary) **94b:54058**
Picavet-L'Hermitte, Martine t-closed rings. **94k:13012**

13G05 Integral domains

Anderson, D. D. (*with* Zafrullah, Muhammad) On t-invertibility. III. **94c:13023**
Cahen, Paul-Jean Parties pleines d'un anneau noethérien. (English and French summaries) [Full subsets of a Noetherian ring] **94d:13021.**
Dobbs, David E. (*with* Zafrullah, Muhammad) Some locally trivial star-theoretic properties of integral domains. (English summary) **94k:13031**
Roitman, Moshe Polynomial extensions of atomic domains. (English summary) **94e:13042**
Shamash, Josephine (*with* Smith, Stuart T.) Embedding GCD domains in Bézout domains. (English summary) **94d:13022**
Smith, Stuart T. *see* **Shamash, Josephine, 94d:13022**
Zafrullah, Muhammad *see* **Anderson, D. D., 94c:13023** *and* **Dobbs, David E., 94k:13031**

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Anderson, D. D. (*with* Anderson, David F.; Zafrullah, Muhammad) Factorization in integral domains. II. (English summary) **94c:13019**
Anderson, David F. *see* **Anderson, D. D.; et al., 94c:13019**
Ayache, Ahmed Sous-anneaux de la forme $D + I$ d'une K-algèbre intègre. [Subrings of the form $D + I$ of an integral K-algebra] **94j:13011**
Baba, Kiyoshi Higher derivations and endomorphism rings. II. (English summary) **94j:12010**
Barucci, Valentina (*with* Gabelli, Stefania; Roitman, Moshe) The class group of a strongly Mori domain. **94k:13020**
Chen, Huan Gen A characteristic of commutative integral domains. (Chinese. English and Chinese summaries) **94m:13020**
Echi, Othman The altitude formula. **94k:13019**
Gabelli, Stefania Divisorial ideals and class groups of Mori domains. **94k:13021**
— *see also* **Barucci, Valentina; et al., 94k:13020**
Girolami, Florida AF-rings and locally Jaffard rings. **94m:13017**
Halter-Koch, Franz On the algebraic and arithmetical structure of generalized polynomial algebras. (English summary) **94m:13010**
Houston, Evan G. Prime t-ideals in $R[X]$. (English summary) **94k:13028**
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Nanda, V. C. Integral bases with restricted coefficients and other results for extensions of Dedekind domains. **94c:13018**
Oda, Susumu On Picard groups of Z-graded domains. **94k:13023**
— (*with* Sugatani, Takasi; Yoshida, Ken-ichi) On extensions $R[\alpha] \cap R[\alpha^{-1}]$ of Noetherian domains R. **94j:13006**
O'Neill, John D. An infinite module-decomposition. **94a:13025**
Picavet-L'Hermitte, Martine t-closed rings. **94k:13012**
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Yoshida, Ken-ichi *see* **Oda, Susumu; et al., 94j:13006**
Zafrullah, Muhammad *see* **Anderson, D. D.; et al., 94c:13019**

13Hxx Local rings and semilocal rings

13H05 Regular local rings

Jothilingam, P. (*with* Mangayarcarassy, S.) Regular sequences, projective dimension and criteria for regularity of local rings. **94f:13013**
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Noh, Sunsook Adjacent integrally closed ideals in dimension two. (English summary) **94d:13023**

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Dutta, S. P. A note on Chow groups and intersection multiplicity of modules. **94j:13020**
Lyubeznik, Gennady Finiteness properties of local cohomology modules (an application of D-modules to commutative algebra). (English summary) **94e:13032**
Noh, Sunsook Sequence of valuation ideals of prime divisors of the second kind in 2-dimensional regular local rings. **94d:13003**

13H10 Special types (Cohen-Macaulay, Gorenstein, Buchsbaum, etc.) [see also 14M05]

Amasaki, Mutsumi Free complexes defining maximal quasi-Buchsbaum graded modules over polynomial rings. **94a:13020**
Beintema, Mark B. A note on Artinian Gorenstein algebras defined by monomials. **94h:13016**
Brown, William C. (*with* Herzog, Jürgen) One-dimensional local rings of maximal and almost maximal length. (English summary) **94a:13021**
Brumatti, Paulo (*with* de Souza Doering, Ada Maria; Lequain, Yves) Differential simplicity, Cohen-Macaulayness and formal prime divisors. (English summary) **94a:13022**
Cipu, Mihai Generalized Cohen-Macaulay modules over rings with approximation property. (English summary) **94d:13024**
Ding, Songqing Cohen-Macaulay approximation and multiplicity. **94c:13024**
— A note on the index of Cohen-Macaulay local rings. **94b:13014**
— The associated graded ring and the index of a Gorenstein local ring. (English summary) **94f:13014**
Herrmann, Manfred (*with* Ribbe, Jürgen; Schenzel, P.) On the Gorenstein property of form rings. **94d:13025**
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Kamoi, Yuuji Defining ideals of Cohen-Macaulay semigroup rings. **94a:13023**
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Miyazaki, Chikashi Spectral sequence theory of graded modules and its application to the Buchsbaum property and Segre products. (English summary) **94e:13043**
Morales, Marcel (*with* Simis, Aron) Arithmetically Cohen-Macaulay monomial curves in $\mathbf{P}^3$. **94e:13044**
Noma, Atsushi A sufficient condition for a projective variety to be the Proj of a Gorenstein graded ring. (English summary) **94e:13045**
Popescu, Dorin Liftings of finite injective dimension modules. **94g:13015**
Ribbe, Jürgen *see* **Herrmann, Manfred; et al., 94d:13025**
Scheja, Günter (*with* Storch, Uwe) On projective representations of finite algebras by graded complete intersections. (English summary) **94e:13046**
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Strogalov, S. S. On definitions of some classes of local rings. (Russian)
Takeuchi, Yasuji On Cohen-Macaulay simplicial complexes. **94b:13015**

Items with secondary classifications in 13H10

Avramov, Luchezar L. (*with* Foxby, Hans-Bjørn) Grothendieck's localization problem. (English summary) **94m:13011**
Ballico, Edoardo On the structure of cohomology of projective varieties. **94m:14022**
Barile, Margherita The Cohen-Macaulayness and the a-invariant of an algebra with straightening laws on a doset. **94m:13018**
Boij, Mats (*with* Laksov, Dan) Nonunimodality of graded Gorenstein Artin algebras. (English summary) **94g:13008**
Bruns, Winfried On the Koszul algebra of a local ring. **94c:13012**
Elías, Juan The conjecture of Sally on the Hilbert function for curve singularities. **94j:13018**
Foxby, Hans-Bjørn *see* **Avramov, Luchezar L., 94m:13011**
Goto, Shiro (*with* Nishida, Koji; Shimoda, Yasuhiro) The Gorensteinness of the symbolic blow-ups for certain space monomial curves. **94a:13002**
— (*with* Nishida, Koji; Watanabe, Keiichi) Non-Cohen-Macaulay symbolic blow-ups for space monomial curves and counterexamples to Cowsik's question. **94d:13005**
Heinzer, William J. (*with* Johnston, Bernard; Lantz, David C.) First coefficient domains and ideals of reduction number one. **94g:13001**
Herrmann, Manfred (*with* Hyry, Eero; Ribbe, Jürgen) On the Cohen-Macaulay and Gorenstein properties of multigraded Rees algebras. **94h:13003**
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13K05 Witt vectors and related rings

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13N05 Modules of differentials [see also 16S32]

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Heintz, Joos *see* **Caniglia, Léandro; et al., 94i:13015** *and* **Giusti, Marc; et al., 94i:13016**
Kalkbrener, Michael (*with* Sweedler, Moss; Taylor, Lee) Low degree solutions to linear equations with $K[x]$ coefficients. (English summary) **94j:13023**
Krick, Teresa *see* **Caniglia, Léandro; et al., 94i:13015**
Sabia, Juan *see* **Giusti, Marc; et al., 94i:13016**
Smietanski, F. A parametrized Nullstellensatz. **94i:13017**
Solernó, Pablo *see* **Caniglia, Léandro; et al., 94i:13015**
Sweedler, Moss *see* **Kalkbrener, Michael; et al., 94j:13023**
Taylor, Lee *see* **Kalkbrener, Michael; et al., 94j:13023**

Items with secondary classifications in 13P99

Elkadi, M. Bornes pour les degrés et les hauteurs dans le problème de division. (English summary) [Bounds for degrees and heights in the division problem] **94i:14063**
Wang, Dong Ming An elimination method based on Seidenberg's theory and its applications. (English summary) **94h:68102**

14–XX Algebraic geometry

14–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 14–00

Murty, V. Kumar ★ Introduction to abelian varieties. **94h:14045**

14–01 Instructional exposition (textbooks, tutorial papers, etc.)

Kempf, George R. ★ Algebraic varieties. (English summary) **94k:14001**
Reid, Miles ★ Алгебраическая геометрия для всех. (Russian. Russian summary) [Algebraic geometry for everyone] **94h:14001**
(Shafarevich, I. R.) *see* **Reid, Miles, 94h:14001**
(Shapiro, B. Z.) *see* **Reid, Miles, 94h:14001**
Steenbrink, J. H. M. Algebraic geometry. (Dutch) **94m:14001**

14–02 Research exposition (monographs, survey articles)

Birkenhake, Christina *see* **Lange, Herbert, 94j:14001**
Blass, Josef (*with* Blass, Piotr; Klasa, Stan L.) Alexandre Grothendieck's EGA V. I. Hyperplane sections and conic projections (1) (interpretation and rendition of his "prenotes"). **94c:14001**
— (*with* Blass, Piotr; Klasa, Stan L.) Alexandre Grothendieck's EGA V. II. Study of a variable hyperplane section (interpretation and rendition of his "prenotes"). **94d:14002**
— (*with* Blass, Piotr; Klasa, Stan L.) Alexandre Grothendieck's EGA V. III. (Interpretation and rendition of his "prenotes"). **94d:14003**
— (*with* Blass, Piotr; Klasa, Stan L.) Alexandre Grothendieck's EGA V. IV. (Interpretation and rendition of his "prenotes"). **94d:14004**
Blass, Piotr (*with* Lang, Jeffrey) Addendum to: "A. Grothendieck's EGA V. I" [Ulam Quart. **1** (1992), no. 1, 62ff., approx. 8 pp. (electronic only); MR 94c:14001] by J. Blass, P. Blass and S. Klasa. **94d:14001**
— *see also* **Blass, Josef; et al., 94c:14001; 94d:14002; 94d:14003** *and* **94d:14004**
Klasa, Stan L. *see* **Blass, Josef; et al., 94c:14001; 94d:14002; 94d:14003** *and* **94d:14004**
Lang, Jeffrey *see* **Blass, Piotr, 94d:14001**
Lange, Herbert (*with* Birkenhake, Christina) ★ Complex abelian varieties. **94j:14001**
Peternell, Thomas Tangent bundles, rational curves, and the geometry of manifolds of negative Kodaira dimension. **94b:14001**
Serrano, Fernando Fibrations on algebraic surfaces. **94d:14005**

Items with secondary classifications in 14–02

(Drinfel'd, V. G.) *see* **Manin, Yu. I., (94d:01001)**
Ewald, Günter Algebraic geometry and convexity. **94h:14050**
Fulton, William ★ Introduction to toric varieties. **94g:14028**
Greene, Brian R. (*with* Plesser, M. Ronen) An introduction to mirror manifolds. (English summary) (*see* **94b:32001**)
(Jimbo, Michio) *see* **Manin, Yu. I., (94d:01001)**
Manin, Yu. I. On the work of Vladimir Drinfel'd [MR 93c:01029]. (*see* **94d:01001**)
Plesser, M. Ronen *see* **Greene, Brian R., (94b:32001)**

14–03 Historical (must also be assigned at least one classification number from Section 01)

Gruson, Laurent Un aperçu des travaux mathématiques de G. H. Halphen (1844–1889). [An outline of the mathematical works of G. H. Halphen (1844–1889)] **94b:14002**

Items with secondary classifications in 14–03

Brigaglia, Aldo The harpoon of algebraic topology: abelian varieties and Riemannian matrices in Italian algebraic geometry (1915–1935). (Italian) **94k:01035**
Charpentier, Marc Idéaux et géométrie: une esquisse historique. [Ideals and geometry: a historical sketch] (*see* **94j:00009**)
Salmon, P. The origins of commutative algebra in Italy. (Italian. English summary) **94e:13001**

14–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 14–04

Kalkbrener, Michael A generalized Euclidean algorithm for computing triangular representations of algebraic varieties. (English summary) **94e:13053**

14–06 Proceedings, conferences, collections, etc.

(Abhyankar, Shreeram S.) *see* **Algebraic geometry and its applications, 94m:14002**
(Bajaj, Chanderjit L.) *see* **Algebraic geometry and its applications, 94m:14002**
(Beauville, Arnaud) *see* **Proceedings: Conference on Geometry, 94m:14004**
(Ciliberto, Ciro) *see* **Classification of algebraic varieties, 94m:14003**
(Fujiki, Akira) *see* **Algebraic geometry and analytic geometry, 94h:14002**
(Jacob, William B.) *see* **Recent advances in real algebraic geometry and quadratic forms, 94h:14003**
(Kato, Kazuya) *see* **Algebraic geometry and analytic geometry, 94h:14002**
(Katsura, T.) *see* **Algebraic geometry and analytic geometry, 94h:14002**
(Kawamata, Yujiro) *see* **Algebraic geometry and analytic geometry, 94h:14002**
(Lam, Tsit Yuen) *see* **Recent advances in real algebraic geometry and quadratic forms, 94h:14003**
(Livorni, E. Laura) *see* **Classification of algebraic varieties, 94m:14003**
(Miyaoka, Yoichi) *see* **Algebraic geometry and analytic geometry, 94h:14002**

(Ramanan, S.) *see* **Proceedings: Conference on Geometry, 94m:14004**
(Robson, Robert O.) *see* **Recent advances in real algebraic geometry and quadratic forms, 94h:14003**
(Sommese, Andrew J.) *see* **Classification of algebraic varieties, 94m:14003**
(Voskresenskiĭ, V. E.) *see* **Arithmetic and geometry of manifolds, 94i:14001**

Items listed otherwise than by author

Algebraic geometry and analytic geometry ★ Algebraic geometry and analytic geometry. **94h:14002**
Algebraic geometry and Hodge theory ★ Daisū kikagaku to Hojji riron. (Japanese) [Algebraic geometry and Hodge theory] **94b:14003**
Algebraic geometry and its applications ★ Algebraic geometry and its applications. **94m:14002**
Arithmetic and geometry of manifolds ★ Арифметика и геометрия многообразий. (Russian) [Arithmetic and geometry of manifolds] **94i:14001**
Bibliography:
  Abhyankar, Shreeram Shankar ★ Algebraic geometry and its applications. **94m:14002**
Birthday:
  Abhyankar, Shreeram Shankar ★ Algebraic geometry and its applications. **94m:14002**
Bombay ★ Proceedings of the Indo-French Conference on Geometry. **94m:14004**
Classification of algebraic varieties ★ Classification of algebraic varieties. **94m:14003**
Conference:
  Algebraic Geometry ★ Journées de Géométrie Algébrique d'Orsay. [Orsay Conference on Algebraic Geometry] **94i:14002**
  Algebraic Geometry and Analytic Geometry ★ Algebraic geometry and analytic geometry. **94h:14002**
  Algebraic Geometry and its Applications ★ Algebraic geometry and its applications. **94m:14002**
  Classification of Algebraic Varieties ★ Classification of algebraic varieties. **94m:14003**
  Geometry ★ Proceedings of the Indo-French Conference on Geometry. **94m:14004**
Contemporary Mathematics ★ Classification of algebraic varieties. **94m:14003**
Kyoto ★ Daisū kikagaku to Hojji riron. (Japanese) [Algebraic geometry and Hodge theory] **94b:14003**
L'Aquila ★ Classification of algebraic varieties. **94m:14003**
Orsay ★ Journées de Géométrie Algébrique d'Orsay. [Orsay Conference on Algebraic Geometry] **94i:14002**
Proceedings:
  Conference on Geometry ★ Proceedings of the Indo-French Conference on Geometry. **94m:14004**
Recent advances in real algebraic geometry and quadratic forms ★ Recent advances in real algebraic geometry and quadratic forms. **94h:14003**
Session:
  Real Algebraic Geometry and Quadratic Forms ★ Recent advances in real algebraic geometry and quadratic forms. **94h:14003**
Special Year:
  Real Algebraic Geometry and Quadratic Forms ★ Recent advances in real algebraic geometry and quadratic forms. **94h:14003**
Symposium:
  Algebraic Geometry and Hodge Theory ★ Daisū kikagaku to Hojji riron. (Japanese) [Algebraic geometry and Hodge theory] **94b:14003**
Tokyo ★ Algebraic geometry and analytic geometry. **94h:14002**
West Lafayette, IN ★ Algebraic geometry and its applications. **94m:14002**

Items with secondary classifications in 14–06

(Catanese, F.) *see* **Problems in the theory of surfaces and their classification, 94m:14040**
(Ciliberto, Ciro) *see* **Problems in the theory of surfaces and their classification, 94m:14040**
(Coen, Salvatore) *see* **Seminar: Geometry, 94j:00015**
(Cornalba, M. D. T.) *see* **Problems in the theory of surfaces and their classification, 94m:14040**
(Eisenbud, David) *see* **Computational algebraic geometry and commutative algebra, 94f:13002**
(Eyssette, Frédéric) *see* **Computational algebraic geometry, 94b:13001**
(Galligo, André) *see* **Computational algebraic geometry, 94b:13001**
(Kobayashi, Shoshichi) *see* **Symposium: Holomorphic Mappings, Diophantine Geometry and Related Topics, 94f:32004**
(Robbiano, Lorenzo) *see* **Computational algebraic geometry and commutative algebra, 94f:13002**

Items listed otherwise than by author

Algebraic analysis and number theory ★ Algebraic analysis and number theory. **94f:00013**
Analytic varieties and singularities ★ Kaiseki tayōtai to tokuiten. [Analytic varieties and singularities] **94f:32070**
Birthday:
  Kobayashi, Shoshichi ★ International Symposium "Holomorphic Mappings, Diophantine Geometry and Related Topics". **94f:32004**
Computational algebraic geometry ★ Computational algebraic geometry. **94b:13001**
Computational algebraic geometry and commutative algebra ★ Computational algebraic geometry and commutative algebra. **94f:13002**
Conference:
  Computational Algebraic Geometry ★ Computational algebraic geometry. **94b:13001**
  Computational Algebraic Geometry and Commutative Algebra ★ Computational algebraic geometry and commutative algebra. **94f:13002**
Cortona ★ Problems in the theory of surfaces and their classification. **94m:14040**
— ★ Computational algebraic geometry and commutative algebra. **94f:13002**
Kyoto ★ Algebraic analysis and number theory. **94f:00013**
— ★ Jitsu tokuiten to jitsu daisū kika. [Real singularities and real algebraic geometry] **94f:58006**
— ★ International Symposium "Holomorphic Mappings, Diophantine Geometry and Related Topics". **94f:32004**
Meeting:
  Problems in the Theory of Surfaces and their Classification ★ Problems in the theory of surfaces and their classification. **94m:14040**
Meeting: (*cont'd.*)
  Nice ★ Computational algebraic geometry. **94b:13001**
  Problems in the theory of surfaces and their classification ★ Problems in the theory of surfaces and their classification. **94m:14040**
  Progress in Mathematics ★ Computational algebraic geometry. **94b:13001**
  Real singularities and real algebraic geometry ★ Jitsu tokuiten to jitsu daisū kika. [Real singularities and real algebraic geometry] **94f:58006**
Seminar:
  Geometry ★ Seminari di Geometria. 1991–1993. [Geometry Seminars. 1991–1993] **94j:00015**
Symposia Mathematica ★ Problems in the theory of surfaces and their classification. **94m:14040**
— ★ Computational algebraic geometry and commutative algebra. **94f:13002**
Symposium:
  Algebraic Analysis and Number Theory ★ Algebraic analysis and number theory. **94f:00013**
  Analytic Varieties and Singularities ★ Kaiseki tayōtai to tokuiten. [Analytic varieties and singularities] **94f:32070**
  Holomorphic Mappings, Diophantine Geometry and Related Topics ★ International Symposium "Holomorphic Mappings, Diophantine Geometry and Related Topics". **94f:32004**
  Real Singularities and Real Algebraic Geometry ★ Jitsu tokuiten to jitsu daisū kika. [Real singularities and real algebraic geometry] **94f:58006**

14Axx Foundations

14A10 Varieties

Items with secondary classifications in 14A10

Hübl, Reinhold (*with* Kunz, Ernst) On algebraic varieties over fields of prime characteristic. **94k:13005**
Kunz, Ernst *see* **Hübl, Reinhold, 94k:13005**
Letichevskiĭ, Aleksandr Adol'fovich (*with* L'vov, M. S.) Discovery of invariant equalities in programs over data fields. (English summary) **94h:68052**
L'vov, M. S. *see* **Letichevskiĭ, Aleksandr Adol'fovich, 94h:68052**

14A15 Schemes

Constantinescu, Adrian A criterion for properness for schemes generically of finite type over a field. **94e:14001**
Lütkebohmert, Werner On compactification of schemes. **94h:14004**
Sekiguchi, Koji Ringed spaces of valuation rings and projective limits of schemes. **94f:14001**

Items with secondary classifications in 14A15

Blass, Josef (*with* Blass, Piotr; Klasa, Stan L.) Alexandre Grothendieck's EGA V. I. Hyperplane sections and conic projections (1) (interpretation and rendition of his "prenotes"). **94c:14001**
— (*with* Blass, Piotr; Klasa, Stan L.) Alexandre Grothendieck's EGA V. II. Study of a variable hyperplane section (interpretation and rendition of his "prenotes"). **94d:14002**
— (*with* Blass, Piotr; Klasa, Stan L.) Alexandre Grothendieck's EGA V. III. (Interpretation and rendition of his "prenotes"). **94d:14003**
— (*with* Blass, Piotr; Klasa, Stan L.) Alexandre Grothendieck's EGA V. IV. (Interpretation and rendition of his "prenotes"). **94d:14004**
Blass, Piotr (*with* Lang, Jeffrey) Addendum to: "A. Grothendieck's EGA V. I" [Ulam Quart. **1** (1992), no. 1, 62ff., approx. 8 pp. (electronic only); MR 94c:14001] by J. Blass, P. Blass and S. Klasa. **94d:14001**
— *see also* **Blass, Josef; et al., 94c:14001; 94d:14002; 94d:14003** *and* **94d:14004**
Bosch, Siegfried (*with* Lütkebohmert, Werner) Formal and rigid geometry. II. Flattening techniques. **94e:11070**
Doretti, Lucia Distinct points in $\mathbf{P}^2$ with generic Hilbert function. (Italian. English summary) **94e:13030**
Feit, Paul Axiomization of passage from "local" structure to "global" object. **94f:18009**
Klasa, Stan L. *see* **Blass, Josef; et al., 94c:14001; 94d:14002; 94d:14003** *and* **94d:14004**
Lang, Jeffrey *see* **Blass, Piotr, 94d:14001**
Lütkebohmert, Werner *see* **Bosch, Siegfried, 94e:11070**

14A22 Noncommutative algebraic geometry; algebraic supervarieties [see also 14M30, 32C11, 58A50]

Items with secondary classifications in 14A22

Craven, Thomas C. Orderings for noncommutative rings. **94k:14049**
Domínguez Pérez, J. A. (*with* Hernández Ruipérez, Daniel; Sancho de Salas, C.) The variety of positive superdivisors of a supercurve (supervortices). (English summary) **94i:14056**
Haran, Shai An invitation to dyslectic geometry. **94m:16047**
Hernández Ruipérez, Daniel *see* **Domínguez Pérez, J. A.; et al., 94i:14056**
Mulase, Motohico Geometric classification of Z_2-commutative algebras of super differential operators. **94d:58024**
Sallam, Ragabia *see* **Van Oystaeyen, Freddy, 94c:16055**
Sancho de Salas, C. *see* **Domínguez Pérez, J. A.; et al., 94i:14056**
Stafford, J. T. Regularity of algebras related to the Sklyanin algebra. **94d:16040**
Van Oystaeyen, Freddy (*with* Sallam, Ragabia) A microstructure sheaf and quantum sections over a projective scheme. **94c:16055**
Verĕvkin, A. B. Injective Serre sheaves. (Russian. Russian summary) **94a:18011**

14A99 None of the above, but in this section

Huber, Roland (*with* Knebusch, Manfred) A glimpse at isoalgebraic spaces. **94d:14006**
Knebusch, Manfred *see* **Huber, Roland, 94d:14006**

14Bxx Local theory [see also 32Sxx]

14B05 Singularities [see also 14E15, 14H20, 32Sxx, 58C27]

Cutkosky, Steven Dale (*with* Srinivasan, Hema) An intrinsic criterion for isomorphism of singularities. **94h:14005**
Herzog, Jürgen (*with* Martsinkovsky, Alex) Gluing Cohen-Macaulay modules with applications to quasihomogeneous complete intersections with isolated singularities. **94h:14006**
Martsinkovsky, Alex *see* **Herzog, Jürgen, 94h:14006**
Moh, T. T. Quasi-canonical uniformization of hypersurface singularities of characteristic zero. **94e:14002**
Seeley, Craig (*with* Yau, Stephen S.-T.) Algebraic methods in the study of simple-elliptic singularities. **94c:14002**
Srinivasan, Hema *see* **Cutkosky, Steven Dale, 94h:14005**
Tomari, Masataka A characterization of log terminal normal graded rings in terms of Pinkham-Demazure's construction. **94k:14002**
Wall, C. T. C. Root system, subsystems and singularities. **94a:14001**
Watanabe, Kimio Three-dimensional hypersurface purely elliptic singularities of $(0, 1)$-type. **94k:14003**
Yau, Stephen S.-T. *see* **Seeley, Craig, 94c:14002**
Zaare-Nahandi, R. Certain structures on the singular loci at $S_1^{(a)}$-type singularities. (English summary) **94e:14003**

Items with secondary classifications in 14B05

Aluffi, Paolo (*with* Cukierman, Fernando) Multiplicities of discriminants. (English summary) **94d:14047**
Broer, Bram Line bundles on the cotangent bundle of the flag variety. **94g:14027**
Casas-Alvero, E. Singularities of polar curves. **94m:14031**
Choudary, A. D. R. On the topology of resultant hypersurface. **94k:32061**
— (*with* Dimca, Alexandru) Koszul complexes and hypersurface singularities. (English summary) **94j:13017**
Cukierman, Fernando *see* **Aluffi, Paolo, 94d:14047**
Dimca, Alexandru *see* **Choudary, A. D. R., 94j:13017**
Gaffney, Terence Punctual Hilbert schemes and resolutions of multiple point singularities. **94b:14004**
Herzog, Jürgen On two-dimensional quasihomogeneous isolated singularities. II. **94a:13028**
Kumar, Shrawan Finiteness of local fundamental groups for quotients of affine varieties under reductive groups. **94b:14044**
Martsinkovsky, Alex On two-dimensional quasihomogeneous isolated singularities. I. **94a:13027**
Ogata, Shoetsu Hirzebruch's conjecture on cusp singularities. **94d:32049**
Popov, V. L. Singularities of closures of orbits. (English summary) **94m:14064**
Rainer, Martin Resolution of simple singularities yielding particle symmetries in a space-time. (English summary) **94k:83066**
Satake, Ikuo Flat structure for the simply elliptic singularity and Jacobi form. **94m:32050**
Savel'ev, I. V. Cyclotomic polynomials and singularities of complex hypersurfaces. (Russian) **94h:32062**
Tang, Li Zhong Rational double points on a normal octic $K3$ surface. **94e:14046**
Yau, Stephen S.-T. (*with* Yu, Yung) Gorenstein quotient singularities in dimension three. (English summary) **94b:14045**
Yu, Yung *see* **Yau, Stephen S.-T., 94b:14045**

14B07 Deformations of singularities [see also 14D15, 32Sxx]

Ishii, Shihoko Simultaneous canonical models of deformations of isolated singularities. **94j:14002**
Satake, Ikuo Flat structure for the simple elliptic singularity of type $\widetilde{E}_6$ and Jacobi form. **94j:14003**
Stevens, Jan The versal deformation of universal curve singularities. **94h:14007**

Items with secondary classifications in 14B07

Bădescu, Lucian Polarized varieties with no deformations of negative weights. **94e:14009**
Risler, Jean-Jacques Construction d'hypersurfaces réelles (d'après Viro). (French summary) [Construction of real hypersurfaces (after Viro)] **94m:14074**
Stevens, Jan Partial resolutions of quotient singularities. **94b:14030**

14B12 Local deformation theory, Artin approximation, etc. [see also 13B40, 13D10]

Items with secondary classifications in 14B12

Kunz, Ernst (*with* Waldi, Rolf) Deformations of zero-dimensional intersection schemes and residues. **94m:13021**
Lyubeznik, Gennady Finiteness properties of local cohomology modules (an application of D-modules to commutative algebra). (English summary) **94e:13032**
Waldi, Rolf *see* **Kunz, Ernst, 94m:13021**

14B15 Local cohomology [see also 13D45, 32C36]

Brodmann, Markus (*with* Vogel, Wolfgang) Bounds for the cohomology and the Castelnuovo regularity of certain surfaces. **94j:14004**
Vogel, Wolfgang *see* **Brodmann, Markus, 94j:14004**

Items with secondary classifications in 14B15

Hamm, Helmut A. (*with* Lê Dũng Tráng) Relative homotopical depth and a conjecture of Deligne. **94h:32066**
Lê Dũng Tráng *see* **Hamm, Helmut A., 94h:32066**
Miyazaki, Chikashi Spectral sequence theory of graded modules and its application to the Buchsbaum property and Segre products. (English summary) **94e:13043**
Montaldi, James (*with* van Straten, Duco) Quotient spaces and critical points of invariant functions for $\mathbf{C}^*$-actions. **94g:32043**
(Sastry, Pramathanath) *see* **Yekutieli, Amnon, 94e:14026**
van Straten, Duco *see* **Montaldi, James, 94g:32043**
Yekutieli, Amnon An explicit construction of the Grothendieck residue complex. (French summary) **94e:14026**

14B99 None of the above, but in this section

Items with secondary classifications in 14B99

Harris, Gary Alvin Algebra and geometry related to uniqueness sets in $\mathbf{C}^3$. **94e:32015**

14Cxx Cycles and subschemes

14C05 Parametrization (Chow and Hilbert schemes)

Diaz, Steven (*with* Geramita, Anthony V.) Points in projective space in very uniform position. (English summary) **94i:14003**
Ellingsrud, Geir (*with* Strømme, Stein Arild) Towards the Chow ring of the Hilbert scheme of $\mathbf{P}^2$. **94i:14004**
Fantechi, Barbara (*with* Göttsche, Lothar) The cohomology ring of the Hilbert scheme of 3 points on a smooth projective variety. **94j:14005**
Fløystad, Gunnar Determining obstructions for space curves, with applications to nonreduced components of the Hilbert scheme. **94e:14004**
Gaffney, Terence Punctual Hilbert schemes and resolutions of multiple point singularities. **94b:14004**
Geramita, Anthony V. *see* **Diaz, Steven, 94i:14003**
Göttsche, Lothar *see* **Fantechi, Barbara, 94j:14005**
Strømme, Stein Arild *see* **Ellingsrud, Geir, 94i:14004**

Items with secondary classifications in 14C05

Ballico, Edoardo On the failure locus of higher order properties of embeddings in projective spaces. **94i:14007**
Ellingsrud, Geir (*with* Strømme, Stein Arild) The number of twisted cubic curves on the general quintic threefold (preliminary version). (English summary) **94d:14050**
Friedlander, Eric M. (*with* Gabber, Ofer) Cycle spaces and intersection theory. **94j:14010**
Gabber, Ofer *see* **Friedlander, Eric M., 94j:14010**
Göttsche, Lothar (*with* Soergel, Wolfgang) Perverse sheaves and the cohomology of Hilbert schemes of smooth algebraic surfaces. **94i:14026**
Kapranov, M. M. Veronese curves and Grothendieck-Knudsen moduli space $\overline{M}_{0,n}$. **94a:14024**
Lima-Filho, Paulo Completions and fibrations for topological monoids. **94a:55009**
Martin-Deschamps, Mireille (*with* Perrin, Daniel) Courbes gauches et modules de Rao. [Space curves and Rao modules] **94e:14040**
Perrin, Daniel *see* **Martin-Deschamps, Mireille, 94e:14040**
Ramella, Luciana Sur les schémas définissant les courbes rationnelles lisses de $\mathbf{P}^3$ ayant fibré normal et fibré tangent restreint fixés. (English and French summaries) [On schemes defining smooth rational curves in $\mathbf{P}^3$ with fixed normal bundle and fixed restricted tangent bundle] **94k:14022**
Ran, Ziv Hodge theory and the Hilbert scheme. **94b:14010**
Saito, Hiroshi² Generalization of Abel's theorem and some finiteness property of zero-cycles on surfaces. **94c:14003**
Soergel, Wolfgang *see* **Göttsche, Lothar, 94i:14026**
Strømme, Stein Arild *see* **Ellingsrud, Geir, 94d:14050**

14C10 Equivalence relations

Items with secondary classifications in 14C10

Bardelli, Fabio Algebraic cycles on projective varieties. (Italian) **94m:14007**
Saito, Hiroshi² Generalization of Abel's theorem and some finiteness property of zero-cycles on surfaces. **94c:14003**

14C15 Rational equivalence rings

Lewis, James D. Cylinder homomorphisms and Chow groups. (English summary) **94i:14005**
Murre, J. P. On a conjectural filtration on the Chow groups of an algebraic variety. I. The general conjectures and some examples. (English summary) **94j:14006a**
— On a conjectural filtration on the Chow groups of an algebraic variety. II. Verification of the conjectures for threefolds which are the product on a surface and a curve. **94j:14006b**
Saito, Hiroshi² Generalization of Abel's theorem and some finiteness property of zero-cycles on surfaces. **94c:14003**

Items with secondary classifications in 14C15

Alzati, Alberto (*with* Pirola, G. P.) On the holomorphic length of a complex projective variety. **94b:14014**
Avritzer, Dan *see* **Vainsencher, Israel, 94c:14027**
Edidin, Dan The codimension-two homology of the moduli space of stable curves is algebraic. **94c:14018**
— Brill-Noether theory in codimension-two. (English summary) **94c:14019**
Gillet, Henri (*with* Soulé, Christophe) An arithmetic Riemann-Roch theorem. **94f:14019**

Pirola, G. P. *see* **Alzati, Alberto, 94b:14014**
Schoen, Chad On Hodge structures and nonrepresentability of Chow groups. **94j:14011**
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Flenner, Hubert (*with* Vogel, Wolfgang) Improper intersections and a converse to Bezout's theorem. **94j:14007**
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Pruschke, Thilo Notes on questions of W. Vogel concerning the converse to Bézout's theorem. (English summary) **94j:14008**
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Aluffi, Paolo (*with* Cukierman, Fernando) Multiplicities of discriminants. (English summary) **94d:14047**
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(Burnol, J.-F.) *see* **Soulé, Christophe, 94e:14031**
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Dutta, S. P. A note on Chow groups and intersection multiplicity of modules. **94j:13020**
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(Kramer, Jürg) *see* **Soulé, Christophe, 94e:14031**
Kurano, Kazuhiko An approach to the characteristic free Dutta multiplicity. **94d:13026**
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14C20 Divisors, linear systems, invertible sheaves

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Ballico, Edoardo On the general osculating flag of a projection of a curve in char. p. (English summary) **94i:14006**
— On linearly normal strange curves. (English and Italian summaries) **94f:14002**
— On secant spaces to projective curves. **94b:14005**
— On the failure locus of higher order properties of embeddings in projective spaces. **94i:14007**
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— (*with* Sommese, Andrew J.) On the preservation of k-very ampleness under adjunction. **94a:14002**
— (*with* Schneider, Michael Hellmut; Sommese, Andrew J.) Applications of the Ein-Lazarsfeld criterion for spannedness of adjoint bundles. **94k:14004**
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— (*with* Srinivas, V.) Periodicity of the fixed locus of multiples of a divisor on a surface. **94m:14006**
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García, Arnaldo Some arithmetic properties of order-sequences of algebraic curves. (English summary) **94c:14004**
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Homma, Masaaki On Esteves' inequality of order sequences of curves. **94f:14003**
Kato, Takao (*with* Ohbuchi, Akira) Very ampleness of multiple of tetragonal linear systems. **94j:14009**
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Ohbuchi, Akira *see* **Kato, Takao, 94j:14009**
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d'Almeida, Jean (*with* Hirschowitz, André) Quelques plongements projectifs non spéciaux de surfaces rationnelles. [Some nonspecial projective embeddings of rational surfaces] **94a:14012**
Andreatta, M. (*with* Ballico, Edoardo) On the projective normality of the adjunction bundles: the singular case. (English summary) **94e:14023**
Ballico, Edoardo Zero-dimensional projective schemes and linear general position in positive characteristic. **94h:14053**
— *see also* **Andreatta, M., 94e:14023**
Beauville, Arnaud Annulation du H^1 pour les fibrés en droites plats. [Vanishing of H^1 for flat line bundles] **94a:14048**
Beltrametti, Mauro C. (*with* Sommese, Andrew J.) On k-jet ampleness. **94g:14006**
Blass, Josef (*with* Blass, Piotr; Klasa, Stan L.) Alexandre Grothendieck's EGA V. I. Hyperplane sections and conic projections (1) (interpretation and rendition of his "prenotes"). **94c:14001**
— (*with* Blass, Piotr; Klasa, Stan L.) Alexandre Grothendieck's EGA V. II. Study of a variable hyperplane section (interpretation and rendition of his "prenotes"). **94d:14002**
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— (*with* Blass, Piotr; Klasa, Stan L.) Alexandre Grothendieck's EGA V. IV. (Interpretation and rendition of his "prenotes"). **94d:14004**
Blass, Piotr (*with* Lang, Jeffrey) Addendum to: "A. Grothendieck's EGA V. I" [Ulam Quart. **1** (1992), no. 1, 62ff., approx. 8 pp. (electronic only); MR 94c:14001] by J. Blass, P. Blass and S. Klasa. **94d:14001**
— *see also* **Blass, Josef; et al., 94c:14001; 94d:14002; 94d:14003** *and* **94d:14004**
Braun, Robert On the normal bundle of Cartier divisors on projective varieties. **94g:14022**
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tom Dieck, Tammo (*with* Petrie, Ted) Homology planes and algebraic curves. **94k:14038**
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Ein, Lawrence (*with* Lazarsfeld, Robert) Global generation of pluricanonical and adjoint linear series on smooth projective threefolds. **94c:14016**
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Flenner, Hubert (*with* Vogel, Wolfgang) Improper intersections and a converse to Bezout's theorem. **94j:14007**
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Kawamata, Yujiro Recent developments in the theory of minimal models. (Japanese) **94m:14020**
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Parimala, R. (*with* Scharlau, W.) On the canonical class of a curve and the extension property for quadratic forms. **94k:14009**
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14C21 Pencils, nets, webs [see also 53A60]

Lorenzini, Dino J. Reducibility of polynomials in two variables. **94b:14006**
Vistoli, Angelo The number of reducible hypersurfaces in a pencil. **94d:14008a**
— Erratum: "The number of reducible hypersurfaces in a pencil". **94d:14008b**

Items with secondary classifications in 14C21

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— Maximum 2-rank webs AGW(6, 3, 2). (English summary) **94i:53005**
Shioda, Tetsuji Generalization of a theorem of Manin-Shafarevich. **94d:14034**

14C22 Picard groups

Harer, John L. The rational Picard group of the moduli space of Riemann surfaces with spin structure. **94h:14008**

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Eikelberg, Markus Picard groups of compact toric varieties and combinatorial classes of fans. (English summary) **94b:14052**
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Ito, Hiroyuki The Mordell-Weil groups of unirational quasi-elliptic surfaces in characteristic 3. **94d:14035**
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Shioda, Tetsuji Generalization of a theorem of Manin-Shafarevich. **94d:14034**
Weissauer, R. The Picard group of Siegel modular threefolds. **94e:11052**
Wiegand, Roger Torsion in Picard groups of affine rings. (English summary) **94m:13013**

14C25 Algebraic cycles

Bardelli, Fabio Algebraic cycles on projective varieties. (Italian) **94m:14007**
Esnault, Hélène (*with* Levine, Marc) Surjectivity of cycle maps. **94m:14008**
Friedlander, Eric M. (*with* Gabber, Ofer) Cycle spaces and intersection theory. **94j:14010**
Gabber, Ofer *see* **Friedlander, Eric M., 94j:14010**

Kleiman, Steven (*with* Lipman, Joseph; Ulrich, Bernd) The source double-point cycle of a finite map of codimension one. (English summary) **94a:14003**
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Lipman, Joseph *see* **Kleiman, Steven; et al., 94a:14003**
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Voisin, Claire Structure de Hodge mixte sur certains groupes d'homotopie et application d'Abel-Jacobi. [Mixed Hodge structure on certain homotopy groups and Abel-Jacobi mapping] **94c:14006**

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Ballico, Edoardo Curves whose hyperplane section is a given scheme. **94a:14028**
Fantechi, Barbara (*with* Göttsche, Lothar) The cohomology ring of the Hilbert scheme of 3 points on a smooth projective variety. **94j:14005**
Göttsche, Lothar *see* **Fantechi, Barbara, 94j:14005**
Lima-Filho, Paulo On the generalized cycle map. (English summary) **94i:14027**
Nori, Madhav V. Algebraic cycles and Hodge-theoretic connectivity. **94b:14007**
Parimala, R. Algebraic geometry methods in real algebraic geometry. **94i:14061**
Ravi, M. S. An effective version of Nori's theorem. **94i:14024**
White, Samuel P. Sporadic cycles on CM abelian varieties. **94i:14048**

14C30 Transcendental methods, Hodge theory [see also 14D07, 32G20, 32J25, 32S35], Hodge conjecture

Arapura, Donu (*with* Oh, Kyungho) Abel's theorem for twisted Jacobians. **94e:14008**
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— On Hodge structures and nonrepresentability of Chow groups. **94j:14011**
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Kim, Minhyong Weights in cohomology groups arising from hyperplane arrangements. (English summary) **94e:14027**
Navarro Aznar, Vicente Stratifications parfaites et théorie des poids. (English summary) [Perfect stratifications and the theory of weights] **94b:14016**
Ran, Ziv Hodge theory and the Hilbert scheme. **94b:14010**
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Scherk, John On the pole order and Hodge filtrations of isolated hypersurface singularities. (English summary) **94m:32051**
Stern, Mark L_2-cohomology and index theory of noncompact manifolds. **94c:58195**
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White, Samuel P. Sporadic cycles on CM abelian varieties. **94i:14048**

14C34 Torelli problem [see also 32G20]

Ivinskis, Kęstutis Das infinitesimale Torelli Problem für einfache Überlagerungen von hohem Grad. (English summary) [The infinitesimal Torelli problem for simple coverings of high degree] **94d:14010**

Items with secondary classifications in 14C34

Simpson, Carlos T. Some families of local systems over smooth projective varieties. **94f:14005**
Usui, Sampei Period maps and their extensions. **94i:14008**
Varchenko, A. N. Hodge filtration of hypergeometric integrals associated with an affine configuration of general position and a local Torelli theorem. **94f:32074**

14C35 Applications of methods of algebraic K-theory [see also 14F05, 19Exx]

Saito, Takeshi (*with* Terasoma, Tomohide) A determinant formula for period integrals. **94m:14009**
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Items with secondary classifications in 14C35

Davydov, A. A. Equivariant K-theory of schemes. (Russian) **94d:19008**
Esnault, Hélène Some examples of computation of a regulator map on singular varieties. **94f:19004**
Friedlander, Eric M. (*with* Gabber, Ofer) Cycle spaces and intersection theory. **94j:14010**
Gabber, Ofer *see* **Friedlander, Eric M., 94j:14010**
Kahn, Bruno Nullité de certains groupes attachés aux variétés semi-abéliennes sur un corps fini; application. (English summary) [Vanishing of certain groups attached to semi-abelian varieties over a finite field: an application] **94b:19006**
Landsburg, Steven E. Some new K-theoretic invariants for commutative rings. **94i:19006**
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Parimala, R. Algebraic geometry methods in real algebraic geometry. **94i:14061**
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Totaro, Burt Milnor K-theory is the simplest part of algebraic K-theory. (English summary) **94d:19009**

14C40 Riemann-Roch theorems [see also 19E20, 19L10]

Joshua, Roy Riemann-Roch for weakly-equivariant D-modules. II. **94m:14010**
Takeda, Yuichiro Lefschetz-Riemann-Roch theorem for smooth algebraic schemes. **94b:14008**

Items with secondary classifications in 14C40

Gillet, Henri (*with* Soulé, Christophe) An arithmetic Riemann-Roch theorem. **94f:14019**
Hübl, Reinhold (*with* Sastry, Pramathanath) Regular differential forms and relative duality. **94i:14022**
Kantor, Jean-Michel (*with* Khovanskiĭ, A. G.) Une application du théorème de Riemann-Roch combinatoire au polynôme d'Ehrhart des polytopes entiers de $\mathbf{R}^d$. (English and French summaries) [An application of the combinatorial Riemann-Roch theorem to the Ehrhart polynomial of integral polytopes in $\mathbf{R}^d$] **94k:52018**
Khovanskiĭ, A. G. *see* **Pukhlikov, A. V., 94c:14044** *and* **Kantor, Jean-Michel, 94k:52018**
Morelli, Robert Pick's theorem and the Todd class of a toric variety. **94j:14048**
Pommersheim, James E. Toric varieties, lattice points and Dedekind sums. **94c:14043**
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Saito, Takeshi (*with* Terasoma, Tomohide) A determinant formula for period integrals. **94m:14009**
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Tong, Yue Lin L. Connections on determinant bundles. **94e:58146**
Yokura, Shoji On the universality of Baum-Fulton-MacPherson's Riemann-Roch for singular varieties. **94d:14020**

14C99 None of the above, but in this section

Items with secondary classifications in 14C99

Cavaliere, M. P. (*with* Rossi, M. E.; Valla, Giuseppe) The Green-Lazarsfeld conjecture for $n+4$ points in $\mathbf{P}^n_k$. (English summary) **94e:14066**
Rossi, M. E. *see* **Cavaliere, M. P.; et al., 94e:14066**
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14Dxx Families, fibrations

14D05 Structure of families (Picard-Lefschetz, Picard-Fuchs theory, etc.)

Bolibrukh, A. A. Fuchsian systems with reducible monodromy and the Riemann-Hilbert problem [MR 93d:14019]. (*see* **94d:00013**)
Turrini, Cristina On the classes of a projective manifold. **94b:14009**

Items with secondary classifications in 14D05

Ahara, Kazushi On the topology of Fermat type surface of degree 5 and the numerical analysis of algebraic curves. **94k:14050**
Beukers, Frits Algebraic values of G-functions. **94d:11055**
Douai, Antoine Équations aux différences finies, intégrales de fonctions multiformes et polyèdres de Newton. [Finite difference equations, integrals of multivalent functions and Newton polyhedra] **94h:32060**
Ferrara, S. (*with* Louis, J.) Picard-Fuchs equations and flat holomorphic connections from $N=2$ supergravity. (English summary) (*see* **94b:32001**)
Giorgadze, G. K. On the monodromy of principal bundles on Riemann surfaces. (Russian and Georgian summaries) **94a:14036**
Louis, J. *see* **Ferrara, S., (94b:32001)**
Morrison, David R. Picard-Fuchs equations and mirror maps for hypersurfaces. (English summary) **94b:32035**
Vistoli, Angelo The number of reducible hypersurfaces in a pencil. **94d:14008a**
— Erratum: "The number of reducible hypersurfaces in a pencil". **94d:14008b**

14D07 Variation of Hodge structures

Karpishpan, Yakov On higher-order differentials of the period map. **94j:14012**
Navarro Aznar, Vicente Sur la connexion de Gauss-Manin en homotopie rationnelle. (English summary) [On the Gauss-Manin connection in rational homotopy] **94a:14004**
Saitô, Masa-Hiko Applications of Hodge modules—Kollár conjecture and Kodaira vanishing. **94h:14009**
— On Mordell-Weil groups of abelian schemes. **94j:14013**
Shimizu, Yuji An introduction to Morihiko Saito's theory of mixed Hodge modules (version 0.5). **94d:14011**
Simpson, Carlos T. Some families of local systems over smooth projective varieties. **94f:14005**

Items with secondary classifications in 14D07

Batyrev, V. V. Variations of the mixed Hodge structure of affine hypersurfaces in algebraic tori. **94m:14067**
Borcea, Ciprian Calabi-Yau threefolds and complex multiplication. (English summary) **94b:14042**
Candelas, Philip (*with* Derrick, E.; Parkes, Linda) Generalized Calabi-Yau manifolds and the mirror of a rigid manifold. (English summary) **94i:32041**
Derrick, E. *see* **Candelas, Philip; et al., 94i:32041**
Giovanetti, Fabio On the Néron-Severi group of Jacobians of curves with automorphisms. **94h:14029**
Ivinskis, Kęstutis Das infinitesimale Torelli Problem für einfache Überlagerungen von hohem Grad. (English summary) [The infinitesimal Torelli problem for simple coverings of high degree] **94d:14010**

Lopez, Angelo Felice Hodge theory on the Fermat surface and the Picard number of a general surface in $\mathbf{P}^3$ containing a plane curve. (Italian summary) **94i:14036**
Maehara, Kazuhisa Diophantine problem of algebraic varieties and Hodge theory. **94j:14026**
Moonen, B. J. J. The Picard number of certain algebraic surfaces. (English summary) **94c:14031**
Parkes, Linda *see* **Candelas, Philip; et al., 94i:32041**
Saito, Hiroshi[2] Generalization of Abel's theorem and some finiteness property of zero-cycles on surfaces. **94c:14003**
Saitô, Masa-Hiko Classification of nonrigid families of abelian varieties. (English summary) **94d:14043**
Scherk, John On the pole order and Hodge filtrations of isolated hypersurface singularities. (English summary) **94m:32051**
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Usui, Sampei Period maps and their extensions. **94i:14008**

14D10 Arithmetic ground fields (finite, local, global)

Items with secondary classifications in 14D10

Saito, Takeshi ε-factor of a tamely ramified sheaf on a variety. **94m:14025**

14D15 Formal methods; deformations [see also 13D10, 14B07, 16S80 32Gxx]

Bădescu, Lucian Polarized varieties with no deformations of negative weights. **94e:14009**
Biswas, I. (*with* Ramanan, S.) An infinitesimal study of the moduli of Hitchin pairs. **94k:14006**
Miyaoka, Yoichi Relative deformations of morphisms and applications to fibre spaces. **94i:14009**
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Ran, Ziv Derivatives of moduli. **94i:14010**
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Items with secondary classifications in 14D15

Almazar, Vittorio D. (*with* Valeña, Ma. Teresa C.; Yoshida, Masaaki) Democratic projective embedding of the configuration space of five points on the projective line. **94c:14007**
Bosch, Siegfried (*with* Lütkebohmert, Werner) Formal and rigid geometry. I. Rigid spaces. **94a:11090**
Fong, Lung-Ying Rational ribbons and deformation of hyperelliptic curves. **94c:14020**
Hauschild, Volker Deformations and the rational homotopy of the monoid of fiber homotopy equivalences. **94h:55017**
de Jong, Theo (*with* van Straten, Duco) On the deformation theory of rational surface singularities with reduced fundamental cycle. (English summary) **94h:32058**
Lütkebohmert, Werner *see* **Bosch, Siegfried, 94a:11090**
Stevens, Jan The versal deformation of universal curve singularities. **94h:14007**
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Tian, Gang Smoothing 3-folds with trivial canonical bundle and ordinary double points. **94c:14036**
Valeña, Ma. Teresa C. *see* **Almazar, Vittorio D.; et al., 94c:14007**
Walter, Charles H. Some examples of obstructed curves in $\mathbf{P}^3$. **94a:14033**
Yoshida, Masaaki *see* **Almazar, Vittorio D.; et al., 94c:14007**

14D20 Algebraic moduli problems, moduli of vector bundles {For analytic moduli problems, see 32G13.}

Almazar, Vittorio D. (*with* Valeña, Ma. Teresa C.; Yoshida, Masaaki) Democratic projective embedding of the configuration space of five points on the projective line. **94c:14007**
Balaji, V. (*with* Seshadri, C. S.) Poincaré polynomials of some moduli varieties. **94m:14011**
— (*with* Vishwanath, P. A.) On the deformation of certain moduli spaces of vector bundles. **94c:14008**
Ballico, Edoardo Vector bundles, reflexive sheaves and algebraic surfaces. (English and Italian summaries) **94i:14011**
— (*with* Chiantini, L.) On some moduli spaces of rank 2 bundles over $K3$ surfaces. (Italian summary) **94i:14012**
— Real moduli of complex objects: surfaces and bundles. (English summary) **94g:14003**
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Bifet, Emili (*with* Ghione, Franco; Letizia, Maurizio) On the Betti numbers of the moduli space of stable bundles of rank two on a curve. **94j:14014**
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Li, Jun Kodaira dimension of moduli space of vector bundles on surfaces. **94i:14016**
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Miró-Roig, Rosa M. Construction of rank 2 semistable torsion free sheaves which are not limit of vector bundles. **94f:14006**
— The moduli spaces of rank 2 stable vector bundles over Veronesean surfaces. **94h:14012**
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— On the moduli of stable vector bundles on a Hirzebruch surface. **94a:14006**
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— *see also* **Teixidor i Bigas, Montserrat, 94a:14007**
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Adams, Malcolm (*with* Bergvelt, M. J.) The Krichever map, vector bundles over algebraic curves, and Heisenberg algebras. (English summary) **94k:58055**
Ballico, Edoardo On the boundedness of the set of ample vector bundles with fixed sectional genus. **94e:14055**
Barth, Wolf Paul (*with* Michel, J.) Modular curves and Poncelet polygons. **94c:14045**
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Bertram, Aaron (*with* Szenes, András) Hilbert polynomials of moduli spaces of rank 2. Vector bundles. II. **94m:14024**
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— (*with* Ramanan, S.) An infinitesimal study of the moduli of Hitchin pairs. **94k:14006**
Blau, Matthias (*with* Thompson, George) Derivation of the Verlinde formula from Chern-Simons theory and the G/G model. (English summary) **94m:58031**
Boyer, Charles P. (*with* Hurtubise, Jacques C.; Mann, Benjamin M.; Milgram, R. James) The topology of instanton moduli spaces. I. The Atiyah-Jones conjecture. **94h:55010**
Daskalopoulos, Georgios (*with* Wentworth, Richard) Local degeneration of the moduli space of vector bundles and factorization of rank two theta functions. I. **94m:32028**
Debarre, Olivier Le lieu des variétés abéliennes dont le diviseur thêta est singulier a deux composantes. [The locus of abelian varieties whose theta divisor is singular has two components] **94a:14045**
Donaldson, S. K. Gluing techniques in the cohomology of moduli spaces. **94b:57036**
Edidin, Dan The codimension-two homology of the moduli space of stable curves is algebraic. **94c:14018**
— Brill-Noether theory in codimension-two. (English summary) **94c:14019**
Ellingsrud, Geir (*with* Strømme, Stein Arild) Towards the Chow ring of the Hilbert scheme of $\mathbf{P}^2$. **94i:14004**
Esnault, Hélène (*with* Viehweg, Eckart) Ample sheaves on moduli schemes. **94j:14023**
Hurtubise, Jacques C. *see* **Boyer, Charles P.; et al., 94h:55010**
de Jong, A. J. The moduli spaces of principally polarized abelian varieties with $\Gamma_0(p)$-level structure. **94d:14042**
Konno, Hiroshi Construction of the moduli space of stable parabolic Higgs bundles on a Riemann surface. **94g:32027**
Kraft, Hanspeter (*with* Schwarz, Gerald W.) Reductive group actions with one-dimensional quotient. **94e:14065**
Le Potier, Joseph Fibré déterminant et courbes de saut sur les surfaces algébriques. [Determinant bundle and jumping curves on algebraic surfaces] **94e:14058**
Li, Wei-Ping (*with* Qin, Zhenbo) Lower-degree Donaldson polynomial invariants of rational surfaces. **94f:14032**
Looijenga, Eduard Cohomology of $\mathcal{M}_3$ and $\mathcal{M}_3^1$. (English summary) **94i:14032**
Lübke, Martin (*with* Okonek, Christian; Schumacher, Georg) On a relative Kobayashi-Hitchin correspondence. **94j:58029**
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Morgan, John W. Comparison of the Donaldson polynomial invariants with their algebro-geometric analogues. **94m:57066**
Morrison, Ian Subvarieties of moduli spaces of curves: open problems from an algebro-geometric point of view. **94f:14021**
Okonek, Christian *see* **Lübke, Martin; et al., 94j:58029**

Piwek, Meinolf The formal Teichmüller space for stable Mumford curves. **94a:14025**
Poritz, Jonathan A. Parabolic vector bundles and Hermitian-Yang-Mills connections over a Riemann surface. (English summary) **94i:32046**
Qin, Zhenbo On smooth structures of potential surfaces of general type homeomorphic to rational surfaces. **94h:14040**
— *see also* **Li, Wei-Ping**, **94f:14032**
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— *see also* **Bertram, Aaron**, **94m:14024**
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Völklein, Helmut $GL_n(q)$ as Galois group over the rationals. **94a:12007**
Wang, Shuguang Yang-Mills functional on $\mathbf{P}_3$. (English summary) **94c:58023**
— Moduli spaces over manifolds with involutions. **94b:58023**
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Gerritzen, L. Equations defining the periods of totally degenerate curves. (English summary) **94f:14009**
Jakob, B. Moduli of Poncelet polygons. **94c:14010**

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Cornalba, M. D. T. On the projectivity of the moduli spaces of curves. **94i:14031**
Huybrechts, D. Complete curves in moduli spaces of stable bundles on surfaces. **94m:14013**
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Viehweg, Eckart Positivity of sheaves and geometric invariant theory. **94e:14013**
Wang, Wenxiang On the moduli space of principally polarized abelian varieties. (English summary) **94f:14043**

14D25 Geometric invariants [see also 14L30]

Prokhorov, Yu. G. Invariant subvarieties in spaces of binary forms. (Russian) **94a:14009**

Items with secondary classifications in 14D25

Greuel, Gert-Martin (*with* Pfister, Gerhard) Geometric quotients of unipotent group actions. **94e:14064**
Pfister, Gerhard *see* **Greuel, Gert-Martin**, **94e:14064**
Saito, Kyoji On a linear structure of the quotient variety by a finite reflexion group. **94k:32059**
Schwarz, Gerald W. (*with* Zhu, Chen-bo) Invariant differential operators on symplectic Grassmann manifolds. (English summary) **94k:14041**
Seelinger, George F. The étale local structure of orthogonal and symplectic matrix invariants. **94j:14046**
Wehlau, David L. When is a ring of torus invariants a polynomial ring? (English summary) **94i:14050**
Zhu, Chen-bo *see* **Schwarz, Gerald W.**, **94k:14041**

14D99 None of the above, but in this section

Items with secondary classifications in 14D99

Kapranov, M. M. Veronese curves and Grothendieck-Knudsen moduli space $\overline{M}_{0,n}$. **94a:14024**
Reina, Cesare Representations of Virasoro and Kac-Moody algebras: an algebraic geometrical point of view. (English summary) **94i:17033**

14Exx Mappings and correspondences

14E05 Rational maps, birational correspondences

Buchanan, Thomas The twisted cubic and camera calibration. (English summary)
Chądzyński, Jacek (*with* Krasiński, Tadeusz) On the Lojasiewicz exponent at infinity for polynomial mappings of $\mathbf{C}^2$ into $\mathbf{C}^2$ and components of polynomial automorphisms of $\mathbf{C}^2$. (English summary) **94g:14004**
Furushima, Mikio A new example of a compactification of $\mathbf{C}^3$. **94c:14011**
Halter-Koch, Franz (*with* Narkiewicz, Władysław) Finiteness properties of polynomial mappings. **94j:14016**
Heitmann, Raymond C. Corrigendum: "On the Jacobian conjecture" [J. Pure Appl. Algebra **64** (1990), no. 1, 35–72; MR 91c:14018]. **94h:14014**
Jelonek, Zbigniew The set of points at which a polynomial map is not proper. (English summary) **94i:14018**
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Lang, Jeffrey (*with* Mandal, Satyagopal) On Jacobian n-tuples in characteristic p. **94a:14010**
Mandal, Satyagopal *see* **Lang, Jeffrey**, **94a:14010**
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Ohno, Masahiro $\Pi^r\mathbf{P}^1$-bundle from which a surjective morphism to $\Pi^m\mathbf{P}^1$ exists. (English summary) **94c:14012**
Oneto, Anna (*with* Zatini, E.) Remarks on Nash blowing-up. (English summary) **94d:14013**
Peyre, Emmanuel Unramified cohomology and rationality problems. **94e:14015**
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Alzati, Alberto (*with* Bertolini, Marina) On the rationality of Fano 3-folds with $B_2 \geq 2$. (Italian. English summary) **94f:14038**
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Coppens, Marc Embeddings of blowing-ups. **94m:14019**
van den Essen, Arno Locally finite and locally nilpotent derivations with applications to polynomial flows, morphisms and $\mathscr{G}_a$-actions. II. (English summary) **94i:13005**
Friedland, Shmuel Entropy of rational self-maps of projective varieties. **94e:32048**
García, Julio Systèmes linéaires de séries de puissances, pinceaux et feuilletages associés. (English and French summaries) [Linear systems of power series, pencils and associated foliations] **94a:32056**
Gorak, R. A. Noether formulas for three-dimensional Cremona transformations. (Russian. Russian summary) **94e:14017**
Hall, Peter Uniqueness theorems for parametrized algebraic curves. **94d:32035**
Ishii, Shihoko A Fano 3-fold with the 1-dimensional locus of nonrational singularities. **94m:14058**
Iskovskikh, V. A. (*with* Pukhlikov, A. V.) Birational automorphisms of Fano varieties. **94g:14020**
Kawamata, Yujiro Recent developments in the theory of minimal models. (Japanese) **94m:14020**
Luo, Tie Global 2-forms on regular 3-folds of general type. **94k:14032**
Namikawa, Yoshinori Elliptic 3-folds and non-Kähler 3-folds. **94b:32047**
Pukhlikov, A. V. *see* **Iskovskikh, V. A.**, **94g:14020**
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Zaare-Nahandi, R. Certain structures on the singular loci at $S_1^{(q)}$-type singularities. (English summary) **94e:14003**

14E07 Birational automorphisms, Cremona group and generalizations [see also 32G20]

Cheng, Charles Ching-an (*with* Wang, Stuart Sui Sheng; Yu, Jie Tai) Degree bounds for inverses of polynomial automorphisms. (English summary) **94e:14016**
Falqui, G. (*with* Viallet, C.-M.) Singularity, complexity, and quasi-integrability of rational mappings. (English summary) **94i:14019**
Gorak, R. A. Noether formulas for three-dimensional Cremona transformations. (Russian. Russian summary) **94e:14017**
Iskovskikh, V. A. Generators in the two-dimensional Cremona group over an unclosed field. **94c:14013**
— (*with* Kabdykairov, F. K.; Tregub, S. L.) Relations in a two-dimensional Cremona group over a perfect field. (Russian) **94m:14015**
Kabdykairov, F. K. *see* **Iskovskikh, V. A.; et al.**, **94m:14015**
Krasiński, Tadeusz (*with* Spodzieja, Stanisław) On linear differential operators related to the n-dimensional Jacobian conjecture. **94h:14015**
Kulikov, Vik. S. Generalized and local Jacobian problems. (Russian. Russian summary) **94f:14010**
Spodzieja, Stanisław *see* **Krasiński, Tadeusz**, **94h:14015**
Tregub, S. L. *see* **Iskovskikh, V. A.; et al.**, **94m:14015**
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Wang, Stuart Sui Sheng *see* **Cheng, Charles Ching-an; et al.**, **94e:14016**
Xavier, Frederico Invertibility of Bass-Connell-Wright polynomial maps. **94d:14014**
Yu, Jie Tai *see* **Cheng, Charles Ching-an; et al.**, **94e:14016**

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Bogomolov, F. A. On two conjectures in birational algebraic geometry. **94k:14013**
van den Essen, Arno Locally finite and locally nilpotent derivations with applications to polynomial flows, morphisms and $\mathscr{G}_a$-actions. II. (English summary) **94i:13005**
Heitmann, Raymond C. Corrigendum: "On the Jacobian conjecture" [J. Pure Appl. Algebra **64** (1990), no. 1, 35–72; MR 91c:14018]. **94h:14014**
Lang, Jeffrey (*with* Mandal, Satyagopal) On Jacobian n-tuples in characteristic p. **94a:14010**
Mandal, Satyagopal *see* **Lang, Jeffrey**, **94a:14010**
Sakkalis, Takis On relations between Jacobians and resultants of polynomials in two variables. (English summary) **94e:12001**

14E09 Automorphisms [see also 14J50, 14L27]

van den Essen, Arno The exotic world of invertible polynomial maps. (English summary) **94e:14018**
Jelonek, Zbigniew Irreducible identity sets for polynomial automorphisms. **94c:14014**
Kaliman, Shulim Isotopic embeddings of affine algebraic varieties into $\mathbf{C}^n$. **94a:14011**
Yu, Jie Tai Degree bounds of minimal polynomials and polynomial automorphisms. (English summary) **94i:14020**

Items with secondary classifications in 14E09

Ballico, Edoardo On the automorphisms of surfaces of general type in positive characteristic. (English and Italian summaries) **94m:14050**
Chądzyński, Jacek (*with* Krasiński, Tadeusz) On the Lojasiewicz exponent at infinity for polynomial mappings of $\mathbf{C}^2$ into $\mathbf{C}^2$ and components of polynomial automorphisms of $\mathbf{C}^2$. (English summary) **94g:14004**
Drużkowski, Ludwik M. (*with* Tutaj, Halszka K.) Differential conditions to verify the Jacobian conjecture. (English summary) **94c:34075**
García, Arnaldo On higher-order Weierstrass points and the finiteness of the automorphism group. (English summary) **94a:14035**
Jelonek, Zbigniew Sets determining polynomial automorphisms of $\mathbf{C}^3$. (English summary) **94c:14039**

Kato, Yoshiya *see* **Kuribayashi, Akikazu; et al., 94f:30054**
Kimura, Hideyuki *see* **Kuribayashi, Akikazu; et al., 94f:30054**
Krasiński, Tadeusz *see* **Chądzyński, Jacek, 94g:14004**
Kuribayashi, Akikazu (*with* Kato, Yoshiya; Kimura, Hideyuki) On automorphism groups of compact Riemann surfaces of order sixteen. (English summary) **94f:30054**
Tufféry, Stéphane Automorphismes d'ordre 3 et 7 sur une courbe de genre 3. (English summary) [Automorphisms of orders 3 and 7 over a curve of genus 3] **94a:14031**
Tutaj, Halszka K. *see* **Drużkowski, Ludwik M., 94c:34075**

14E15 Global theory of singularities, resolution [see also 14B05, 32S20, 32S45]

Ogata, Shoetsu Signature defects of Hilbert-Picard modular cusps. **94e:14019**
Pouyanne, Nicolas Une résolution en singularités toriques simpliciales des singularités-quotient de dimension trois. (English and French summaries) [A resolution by simplicial toric singularities of three-dimensional quotient singularities] **94h:14016**
Urabe, Tohsuke On the global theory of singularities. **94k:14007**

Items with secondary classifications in 14E15

Kapranov, M. M. On DG-modules over the de Rham complex and the vanishing cycles functor. **94e:14028**
Youssin, Boris L^2-cohomology, Nash blowup and semismall resolutions. (English summary) **94h:32063**

14E20 Coverings, fundamental group (mappings)

Abhyankar, Shreeram S. Alternating group coverings of the affine line for characteristic greater than two. **94e:14020**
— (*with* Popp, Herbert; Seiler, Wolfgang K.) Construction techniques for Galois coverings of the affine line. (English summary) **94j:14017**
Catanese, F. (*with* Ciliberto, Ciro) On the irregularity of cyclic coverings of algebraic surfaces. **94e:14021**
Chinburg, Ted (*with* Erez, Boas) Equivariant Euler-Poincaré characteristics and tameness. (English summary) **94c:14015**
Ciliberto, Ciro *see* **Catanese, F., 94e:14021**
Duflot, Jeanne Gaussian maps for double coverings. **94m:14016**
Erez, Boas *see* **Chinburg, Ted, 94c:14015**
Esnault, Hélène (*with* Kahn, Bruno; Viehweg, Eckart) Coverings with odd ramification and Stiefel-Whitney classes. **94m:14017**
Hironaka, Eriko Polynomial periodicity for Betti numbers of covering surfaces. **94b:14012**
Kahn, Bruno *see* **Esnault, Hélène; et al., 94m:14017**
Kollár, János Shafarevich maps and plurigenera of algebraic varieties. **94m:14018**
Moishezon, Boris On cuspidal branch curves. **94j:14018**
Nakamura, Hiroaki Galois rigidity of algebraic mappings into some hyperbolic varieties. **94f:14011**
— (*with* Tsunogai, Hiroshi) Some finiteness theorems on Galois centralizers in pro-l mapping class groups. **94g:14005**
Popp, Herbert *see* **Abhyankar, Shreeram S.; et al., 94j:14017**
Seiler, Wolfgang K. *see* **Abhyankar, Shreeram S.; et al., 94j:14017**
Serre, Jean-Pierre Revêtements de courbes algébriques. (French summary) [Coverings of algebraic curves] **94e:14022**
Toledo, Domingo Projective varieties with non-residually finite fundamental group. **94k:14008**
Tsunogai, Hiroshi *see* **Nakamura, Hiroaki, 94g:14005**
Vaquié, Michel Irrégularité des revêtements cycliques des surfaces projectives non singulières. [Irregularity of cyclic coverings of nonsingular projective surfaces] **94d:14015**
Viehweg, Eckart *see* **Esnault, Hélène; et al., 94m:14017**
Zuo, Kang Some structure theorems for semi-simple representations of π_1 of algebraic manifolds. **94f:14012**

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Abhyankar, Shreeram S. Mathieu group coverings in characteristic two. (English and French summaries) **94g:14013**
Artal-Bartolo, Enrique Sur les couples de Zariski. [On Zariski pairs] **94m:14033**
Bogomolov, F. A. Stable cohomology of groups and algebraic varieties. (Russian. Russian summary) **94c:12008**
Chinburg, Ted Galois structure of de Rham cohomology. **94a:14022**
Cutkosky, Steven Dale (*with* Srinivasan, Hema) Local fundamental groups of surface singularities in characteristic p. **94h:14035**
Fujiki, Akira (*with* Kobayashi, Ryoichi; Lu, Steven) On the fundamental group of certain open normal surfaces. **94m:32042**
Hansen, Vagn Lundsgaard Topological aspects of Galois theory for function rings. **94i:57027**
Harbater, David Formal patching and adding branch points. **94f:14024**
Johnson, F. E. A. A rational invariant for certain infinite discrete groups. **94k:32047**
Katzarkov, L. (*with* Pantev, T.) Representations of fundamental groups whose Higgs bundles are pullbacks. (English summary) **94m:14014**
Kobayashi, Ryoichi *see* **Fujiki, Akira; et al., 94m:32042**
Kulikov, Vik. S. Generalized and local Jacobian problems. (Russian. Russian summary) **94f:14010**
— On the Lefschetz theorem for the complement of a curve in $\mathbf{P}^2$. (Russian. Russian summary) **94g:14014**
Kumar, Shrawan Finiteness of local fundamental groups for quotients of affine varieties under reductive groups. **94b:14044**
Lu, Steven *see* **Fujiki, Akira; et al., 94m:32042**
Lütkebohmert, Werner Riemann's existence problem for a p-adic field. **94d:32048**
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Miyanishi, M. (*with* Zhang, D.-Q.) Gorenstein log del Pezzo surfaces. II. (English summary) **94m:14045**
Pantev, T. *see* **Katzarkov, L., 94m:14014**
Ramella, Luciana On the incidence cycles of a curve: some geometric interpretations. (English summary) **94c:14030**
Raynaud, Michel Revêtements de la droite affine en caractéristique $p > 0$ et conjecture d'Abhyankar. [Coverings of the affine line in characteristic p and the Abhyankar conjecture] **94m:14034**
Reyssat, Éric Galois theory for coverings and Riemann surfaces. **94e:14036**
Saïdi, Mohamed Revêtements étales et réduction semi-stable des courbes. (English and French summaries) [Étale coverings and semistable reduction of curves] **94d:14028**
Sakai, F. Singularities of plane curves. **94h:14027**
Schmidt, Alexander (*with* Wingberg, Kay) On the fundamental group of a smooth arithmetic surface. **94k:14026**
Simpson, Carlos T. Lefschetz theorems for the integral leaves of a holomorphic one-form. **94h:32065**
Srinivasan, Hema *see* **Cutkosky, Steven Dale, 94h:14035**
Wingberg, Kay *see* **Schmidt, Alexander, 94k:14026**
Xu, Xiang Slopes of a class of minimal surfaces of general type with fibration. (Chinese. Chinese summary) **94d:14036**
Zhang, D.-Q. *see* **Miyanishi, M., 94m:14045**

14E22 Ramification problems [see also 11S15]

Luo, Zhao Hua On the ramification theory of regular schemes. **94d:14016**
Parimala, R. (*with* Scharlau, W.) On the canonical class of a curve and the extension property for quadratic forms. **94k:14009**
Scharlau, W. *see* **Parimala, R., 94k:14009**

Items with secondary classifications in 14E22

Harbater, David Formal patching and adding branch points. **94f:14024**
Jelonek, Zbigniew The set of points at which a polynomial map is not proper. (English summary) **94i:14018**

14E25 Imbeddings

d'Almeida, Jean (*with* Hirschowitz, André) Quelques plongements projectifs non spéciaux de surfaces rationnelles. [Some nonspecial projective embeddings of rational surfaces] **94a:14012**
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14E40 Local structure of maps: étale, flat, etc. [see also 13-XX, 14F20]

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Tango, Hiroshi On vector bundles on $\mathbf{P}^n$ which have σ-transition matrices. **94d:14019**

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14Gxx Arithmetic problems. Diophantine geometry [see also 11Dxx, 11Gxx]

14G05 Rationality questions, rational points

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14G10 Zeta-functions and related questions [see also 11G40] (Birch-Swinnerton-Dyer conjecture)

Étesse, Jean-Yves (*with* Le Stum, Bernard) Fonctions L associées aux F-isocristaux surconvergents. I. Interprétation cohomologique. [L-functions associated with superconvergent F-isocrystals. I. Cohomological interpretation] **94i:14030**
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— (*with* Voskuil, H.) Symmetric spaces associated to split algebraic groups over a local field. **94h:14022**
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— (*with* Lütkebohmert, Werner) Formal and rigid geometry. II. Flattening techniques. **94e:11070**
Douai, Jean-Claude Dégénérescence de surfaces et principe de Hasse. [Degeneracy of surfaces and the Hasse principle] **94f:14027**
Lütkebohmert, Werner Riemann's existence problem for a p-adic field. **94d:32048**
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Nakamura, Tetsuo A note on elliptic curves with ordinary reduction. **94a:11082**
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Abbes, Ahmed (*with* Bouche, Thierry) Sur le théorème de Hilbert-Samuel (arithmétique). (English and French summaries) [On the (arithmetic) Hilbert-Samuel theorem] **94d:14025**
Bogomolov, F. A. On two conjectures in birational algebraic geometry. **94k:14013**
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Grant, David Integer points on curves of genus two and their Jacobians. (English summary) **94j:11054**
Harari, David Groupe de Brauer de certaines hypersurfaces. (French summary) [Brauer group of certain hypersurfaces] **94a:11094**
Manin, Yu. I. Notes on the arithmetic of Fano threefolds. **94c:11053**
Shioda, Tetsuji Mordell-Weil lattice theory and its applications—a point of contact of algebra, geometry, and computers. (Japanese)
Voloch, José Felipe Siegel's theorem for complex function fields. (English summary) **94j:11052**

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Colliot-Thélène, Jean-Louis The Noether-Lefschetz theorem and sums of 4-squares in the rational function field $\mathbf{R}(x, y)$. (French summary) **94b:14018**
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Kabdykairov, F. K. *see* **Iskovskikh, V. A.; et al., 94m:14015**
Parimala, R. (*with* Sridharan, Ramaiyengar) Graded Witt ring and unramified cohomology. (English summary) **94f:14015**
Schmidt, Wolfgang M. Northcott's theorem on heights. I. A general estimate. (English summary) **94b:11054**
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14G35 Modular and Shimura varieties [see also 11F41, 11F46, 11G18]

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Lee, Min Ho Conjugates of (H_2)-equivariant maps of symmetric domains. **94e:14029**
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Brinkmann, Christoph ★ Die Andersonextension und 1-Motive. (German) [The Anderson extension and 1-motive] **94a:11087**
Gekeler, Ernst-Ulrich (*with* Reversat, M.) Some results on the Jacobians of Drinfel'd modular curves. **94e:11068**
Ishii, Noburo Defining equations of modular function fields. (English summary) **94k:11066**
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Sato, Takeshi The flat holomorphic conformal structure on the Horrocks-Mumford orbifold. **94k:14039**
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14G40 Arithmetic varieties and schemes; Arakelov theory

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— *see also* **Gillet, Henri, 94f:14019**
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14G99 None of the above, but in this section

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Hindry, Marc Géométrie arithmétique. [Arithmetic geometry] **94k:11073**

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14H05 Algebraic functions; function fields [see also 11R58]

Gol'dberg, A. A. (*with* P'yana, V. A.) Uniqueness theorems for algebraic functions. **94f:14020**
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14H10 Families, moduli (algebraic)

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Chen, Zhi Jie On the lower bound of the slope of a nonhyperelliptic fibration of genus 4. **94g:14012**
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— *see also* **Ballico, Edoardo, 94g:14011**
Cornalba, M. D. T. On the projectivity of the moduli spaces of curves. **94i:14031**
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14H15 Families, moduli (analytic) [see also 30F10, 32Gxx]

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14H20 Singularities, local rings [see also 13Hxx]

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Debarre, Olivier (*with* Fahlaoui, Rachid) Abelian varieties in $W_d^r(C)$ and points of bounded degree on algebraic curves. **94h:14028**
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14H30 Coverings, fundamental group [see also 14E20, 14F35]

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Artal-Bartolo, Enrique Sur les couples de Zariski. [On Zariski pairs] **94m:14033**
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Kulikov, Vik. S. On the Lefschetz theorem for the complement of a curve in $\mathbf{P}^2$. (Russian. Russian summary) **94g:14014**
Raynaud, Michel Revêtements de la droite affine en caractéristique $p > 0$ et conjecture d'Abhyankar. [Coverings of the affine line in characteristic p and the Abhyankar conjecture] **94m:14034**
Reyssat, Éric Galois theory for coverings and Riemann surfaces. **94e:14036**

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Abhyankar, Shreeram S. Galois theory on the line in nonzero characteristic. **94a:12004**
— (*with* Popp, Herbert; Seiler, Wolfgang K.) Construction techniques for Galois coverings of the affine line. (English summary) **94j:14017**
Brouillard, Christophe Action du groupe de Galois sur les périodes de certaines courbes de Mumford. (English and French summaries) [Galois action on periods of some Mumford curves] **94a:11088**
Kulikov, Vik. S. Generalized and local Jacobian problems. (Russian. Russian summary) **94f:14010**
Li, Jun The space of surface group representations. (English summary) **94c:58022**
Nakamura, Hiroaki (*with* Tsunogai, Hiroshi) Some finiteness theorems on Galois centralizers in pro-l mapping class groups. **94g:14005**
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14H35 Correspondences [see also 14Exx]

Ciliberto, Ciro (*with* Sernesi, Edoardo) On the symmetric products of a curve. **94d:14029**
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Ballico, Edoardo On linearly normal strange curves. (English and Italian summaries) **94f:14002**

14H40 Jacobians [see also 32G20]

Adams, Malcolm (*with* McCrory, Clint; Shifrin, Ted; Varley, Robert) Invariants of Gauss maps of theta divisors. **94i:14034**
Cassels, J. W. S. Jacobian in genus 2. **94m:14035**
Donagi, Ron The fibers of the Prym map. **94e:14037**
Ekedahl, Torsten (*with* Serre, Jean-Pierre) Exemples de courbes algébriques à jacobienne complètement décomposable. (English and French summaries) [Examples of algebraic curves with totally split Jacobian] **94j:14029**
Giovanetti, Fabio On the Néron-Severi group of Jacobians of curves with automorphisms. **94h:14029**
Lorenzini, Dino J. Jacobians with potentially good l-reduction. **94c:14023**
Marini, Giambattista A characterization of hyperelliptic Jacobians. (English summary) **94c:14024**
McCrory, Clint *see* **Adams, Malcolm; et al., 94i:14034**
Nag, Subhashis Riemann surfaces and their Jacobians: a toolkit. (English summary) **94k:14020**
Schindler, Bernhard Period matrices of hyperelliptic curves. **94c:14025**
Serre, Jean-Pierre *see* **Ekedahl, Torsten, 94j:14029**
Shifrin, Ted *see* **Adams, Malcolm; et al., 94i:14034**
Varley, Robert *see* **Adams, Malcolm; et al., 94i:14034**

Items with secondary classifications in 14H40

Adams, Malcolm (*with* Harnad, J.; Hurtubise, Jacques C.) Darboux coordinates and Liouville-Arnol'd integration in loop algebras. (English summary) **94j:58071**
Arapura, Donu (*with* Oh, Kyungho) Abel's theorem for twisted Jacobians. **94e:14008**
Bukhshtaber, V. M. (*with* Krichever, Ios. M.) Vector addition theorems and Baker-Akhiezer functions. (Russian. English and Russian summaries) **94h:14047**
Debarre, Olivier Vers une stratification de l'espace des modules des variétés abéliennes principalement polarisées. [Toward a stratification of the moduli space of principally polarized abelian varieties] **94b:14039**
— (*with* Fahlaoui, Rachid) Abelian varieties in $W_d^r(C)$ and points of bounded degree on algebraic curves. **94h:14028**
Ehrenpreis, Leon The Schottky relation in genus 4. **94e:14062**
Ein, Lawrence (*with* Lazarsfeld, Robert) Stability and restrictions of Picard bundles, with an application to the normal bundles of elliptic curves. **94a:14015**
Fahlaoui, Rachid *see* **Debarre, Olivier, 94h:14028**
Gekeler, Ernst-Ulrich (*with* Reversat, M.) Some results on the Jacobians of Drinfel'd modular curves. **94e:11068**
Gerritzen, L. Equations defining the periods of totally degenerate curves. (English summary) **94f:14009**
Grant, David A curve for which Coleman's effective Chabauty bound is sharp. (English summary) **94k:14019**
Harnad, J. Isospectral flow and Liouville-Arnol'd integration in loop algebras. (English summary) **94m:58107**
— *see also* **Adams, Malcolm; et al., 94j:58071**
Hurtubise, Jacques C. *see* **Adams, Malcolm; et al., 94j:58071**
Krichever, Ios. M. *see* **Bukhshtaber, V. M., 94h:14047**
Lazarsfeld, Robert *see* **Ein, Lawrence, 94a:14015**
Leprévost, Franck Points rationnels de torsion de jacobiennes de certaines courbes de genre 2. (English and French summaries) [Rational torsion points of some Jacobians of curves of genus 2] **94h:11057**
Lorenzini, Dino J. On modular elliptic curves. (English summary) **94e:11066**
Oh, Kyungho *see* **Arapura, Donu, 94e:14008**
Piovan, Luis A. Towards an algebraic approach to integrable systems. **94m:58124**
— Canonical system on elliptic curves. (English summary) **94a:14034**
Reversat, M. *see* **Gekeler, Ernst-Ulrich, 94e:11068**
Saitō, Masa-Hiko On Mordell-Weil groups of abelian schemes. **94j:14013**

Teixidor i Bigas, Montserrat (*with* Tu, Loring W.) Theta divisors for vector bundles. (English summary) **94a:14007**
Treibich, Armando (*with* Verdier, Jean-Louis) Revêtements exceptionnels et sommes de 4 nombres triangulaires. [Exceptional coverings and sums of four triangular numbers] **94f:14026**
Tu, Loring W. *see* **Teixidor i Bigas, Montserrat, 94a:14007**
Verdier, Jean-Louis *see* **Treibich, Armando, 94f:14026**

14H42 Theta functions; Schottky problem [see also 14K25, 32G20]

McKean, Henry P. A quicker proof of Fay's identity. **94b:14021**

Items with secondary classifications in 14H42

Adams, Malcolm (*with* McCrory, Clint; Shifrin, Ted; Varley, Robert) Invariants of Gauss maps of theta divisors. **94i:14034**
— (*with* Harnad, J.; Hurtubise, Jacques C.) Darboux coordinates and Liouville-Arnol'd integration in loop algebras. (English summary) **94j:58071**
Bukhshtaber, V. M. (*with* Krichever, Ios. M.) Vector addition theorems and Baker-Akhiezer functions. (Russian. English and Russian summaries) **94h:14047**
Chen, Yi Xin *see* **Yue, Rui Hong, 94i:82006**
Donagi, Ron The fibers of the Prym map. **94e:14037**
Farkas, Hershel M. (*with* Kopeliovich, Yaacov) New theta constant identities. (English summary) **94k:33044**
Fay, John D. The nonabelian Szegő kernel and theta-divisor. **94b:14025**
Ferrari, Franco On the partition function of string theories defined on algebraic curves. (English summary) **94c:58218**
Gerritzen, L. On the algebra of totally degenerate theta functions. **94i:14049**
González Díez, Gabino Theta functions on the boundary of moduli space. (English summary) **94c:32013**
Harnad, J. *see* **Adams, Malcolm; et al., 94j:58071**
Hurtubise, Jacques C. *see* **Adams, Malcolm; et al., 94j:58071**
Kopeliovich, Yaacov *see* **Farkas, Hershel M., 94k:33044**
Krichever, Ios. M. *see* **Bukhshtaber, V. M., 94h:14047**
Marini, Giambattista A characterization of hyperelliptic Jacobians. (English summary) **94c:14024**
McCrory, Clint *see* **Adams, Malcolm; et al., 94i:14034**
Nag, Subhashis Riemann surfaces and their Jacobians: a toolkit. (English summary) **94k:14020**
Piovan, Luis A. Canonical system on elliptic curves. (English summary) **94a:14034**
Previato, Emma Geometry of the modified KdV equation. **94m:58125**
Shifrin, Ted *see* **Adams, Malcolm; et al., 94i:14034**
Taimanov, I. A. The Landau-Lifshits equation and quadruple secants of Prym varieties. (Russian) **94j:14042**
Tu, Loring W. Semistable bundles over an elliptic curve. (English summary) **94a:14008**
Varley, Robert *see* **Adams, Malcolm; et al., 94i:14034**
Yue, Rui Hong (*with* Chen, Yi Xin) Integrable $Z_n \times Z_n$ Belavin model with nontrivial boundary terms. (English summary) **94i:82006**

14H45 Special curves and curves of low genus

Ballet, Bernard Genre de courbes lisses tracées sur certaines surfaces rationnelles de $\mathbf{P}^3$. (English and French summaries) [Genus of smooth curves on certain rational surfaces in $\mathbf{P}^3$] **94j:14030**
Ballico, Edoardo Curves whose hyperplane section is a given scheme. **94a:14028**
Finkelberg, M. *see* **Vishik, A., 94m:14036**
Gnoni, Paola An automatic procedure for computing the intersection index of two plane algebraic curves. (Italian)
Hirano, Atsuko Construction of plane curves with cusps. **94a:14029**
Kaji, Hajime On the space curves with the same dual variety. **94a:14030**
— On the space curves with the same image under the Gauss maps. (English summary) **94h:14030**
Kang, Chunghyuk Analytic classification of plane curve singularities defined by some homogeneous polynomials. **94g:14015**
Katz, Sheldon H. Arithmetically Cohen-Macaulay curves cut out by quadrics. **94k:14021**
Lê Văn Thành Affine polar quotients of algebraic plane curve. (English summary) **94d:14030**
Merriman, J. R. (*with* Smart, N. P.) Curves of genus 2 with good reduction away from 2 with a rational Weierstrass point. (English summary) **94h:14031**
Persson, U. Genus two curves with noncanonical involutions. **94f:14025**
Smart, N. P. *see* **Merriman, J. R., 94h:14031**
Tufféry, Stéphane Automorphismes d'ordre 3 et 7 sur une courbe de genre 3. (English summary) [Automorphisms of orders 3 and 7 over a curve of genus 3] **94a:14031**
Tutaj, Halszka K. Geometric proof of M. Noether's genus formula. (English summary) **94c:14026**
Vinnikov, Victor Selfadjoint determinantal representations of real plane curves. **94e:14038**
Vishik, A. (*with* Finkelberg, M.) The coordinate ring of general curve of genus $g \geq 5$ is Koszul. **94m:14036**

Items with secondary classifications in 14H45

Ando, Tetsuya On exceptional $(-3, 1)$-curves in algebraic threefolds. **94m:14057**
Ballico, Edoardo A few geometrical remarks in positive characteristic. (English summary) **94c:14033**
Barth, Wolf Paul (*with* Michel, J.) Modular curves and Poncelet polygons. **94c:14045**
Bujalance, Emilio (*with* Bujalance, J. A.; Gromadzki, Grzegorz; Martínez, Ernesto) Cyclic trigonal Klein surfaces. **94g:30040**
Bujalance, J. A. *see* **Bujalance, Emilio; et al., 94g:30040**
Cukierman, Fernando (*with* Ulmer, Douglas) Curves of genus ten on $K3$ surfaces. **94m:14047**
Davis, Edward D. Complements to a theorem of Gherardelli: the postulational viewpoint. **94e:14042**
Dolgachev, Igor (*with* Kanev, Vasil) Polar covariants of plane cubics and quartics. **94g:14029**
Donohoe, Liam A. Generalised Castelnuovo inequalities. (English summary) **94j:14028**
Dragovich, V. I. Solutions of the Yang equation with rational irreducible spectral curves. (Russian. Russian summary) **94g:58095**
Fedorov, Yu. N. Lax representations with a spectral parameter defined on coverings of hyperelliptic curves. (Russian. Russian summary) **94j:58082**
Giuffrida, Salvatore On the smoothability of some nodal space curves. (Italian summary) **94m:14037**
Gromadzki, Grzegorz *see* **Bujalance, Emilio; et al., 94g:30040**
Huneke, Craig L. (*with* Ulrich, Bernd) General hyperplane sections of algebraic varieties. **94b:14046**
Kanev, Vasil *see* **Dolgachev, Igor, 94g:14029**
Kato, Takao (*with* Ohbuchi, Akira) Very ampleness of multiple of tetragonal linear systems. **94j:14009**
Korchagin, A. B. Construction of new M-curves of 9th degree. **94g:14032**
Kouvidakis, Alexis Ample divisors in the moduli space of 0-genus pointed curves. (English summary) **94e:14034**
Lockhart, Paul On the discriminant of a hyperelliptic curve. (English summary) **94f:11054**
Martínez, Ernesto *see* **Bujalance, Emilio; et al., 94g:30040**
Michel, J. *see* **Barth, Wolf Paul, 94c:14045**
Ohbuchi, Akira *see* **Kato, Takao, 94j:14009**
Parimala, R. (*with* Scharlau, W.) On the canonical class of a curve and the extension property for quadratic forms. **94k:14009**
Scharlau, W. *see* **Parimala, R., 94k:14009**
Schindler, Bernhard Period matrices of hyperelliptic curves. **94c:14025**
Shick, Jonathan Witt groups of function fields of hyperelliptic curves. **94e:11037**
Stöhr, Karl-Otto On the moduli spaces of Gorenstein curves with symmetric Weierstrass semigroups. **94i:14033**
Suresh, V. On the canonical class of hyperelliptic curves. **94k:14005**
Ulmer, Douglas *see* **Cukierman, Fernando, 94m:14047**
Ulrich, Bernd *see* **Huneke, Craig L., 94b:14046**

14H50 Space curves

Beorchia, V. (*with* Ellia, Philippe) Normal bundle and complete intersections. (English summary) **94g:14016**
Bolondi, Giorgio (*with* Migliore, Juan Carlos) On curves with natural cohomology and their deficiency modules. (English and French summaries) **94h:14032**
Boratyński, M. On the curves of contact on surfaces in a projective space. II. (English summary) **94j:14031**
Ellia, Philippe *see* **Beorchia, V., 94g:14016**
Gastinger, W. (*with* Kunz, Ernst; Waldi, Rolf) Relation matrices of monomial curves. **94e:14039**
Giuffrida, Salvatore On the smoothability of some nodal space curves. (Italian summary) **94m:14037**
Kunz, Ernst *see* **Gastinger, W.; et al., 94e:14039**
Martin-Deschamps, Mireille (*with* Perrin, Daniel) Courbes gauches et modules de Rao. [Space curves and Rao modules] **94e:14040**
Migliore, Juan Carlos *see* **Bolondi, Giorgio, 94h:14032**
Paxia, G. (*with* Raciti, G.; Ragusa, A.) Generic quadric sections of irreducible curves. (English summary) **94m:14038**
Perrin, Daniel *see* **Martin-Deschamps, Mireille, 94e:14040**
Raciti, G. *see* **Paxia, G.; et al., 94m:14038**
Ragusa, A. *see* **Paxia, G.; et al., 94m:14038**
Ramella, Luciana Sur les schémas définissant les courbes rationnelles lisses de $\mathbf{P}^3$ ayant fibré normal et fibré tangent restreint fixés. (English and French summaries) [On schemes defining smooth rational curves in $\mathbf{P}^3$ with fixed normal bundle and fixed restricted tangent bundle] **94k:14022**
Strano, Rosario Plane sections of curves of $\mathbf{P}^3$ and a conjecture of Hartshorne and Hirschowitz. (English summary) **94e:14041**
— On generalized Laudal's lemma. **94a:14032**
Waldi, Rolf *see* **Gastinger, W.; et al., 94e:14039**
Walter, Charles H. Some examples of obstructed curves in $\mathbf{P}^3$. **94a:14033**

Items with secondary classifications in 14H50

Ballet, Bernard Genre de courbes lisses tracées sur certaines surfaces rationnelles de $\mathbf{P}^3$. (English and French summaries) [Genus of smooth curves on certain rational surfaces in $\mathbf{P}^3$] **94j:14030**
Rao, Aroor Prabhakar Conormal bundles of determinantal curves. (English summary) **94k:14042**

14H52 Elliptic curves [see also 11G05, 11G07, 14Kxx]

Avritzer, Dan *see* **Vainsencher, Israel, 94c:14027**
Kusunoki, Takamitsu (*with* Uehara, Tsuyoshi) A note on elliptic curve factorization. (English summary) **94k:14023**
Piovan, Luis A. Canonical system on elliptic curves. (English summary) **94a:14034**
Reichstein, Boris (*with* Reichstein, Zinovy) Surfaces parameterizing Waring presentations of smooth plane cubics. **94b:14022**
Reichstein, Zinovy *see* **Reichstein, Boris, 94b:14022**
Treibich, Armando (*with* Verdier, Jean-Louis) Revêtements exceptionnels et sommes de 4 nombres triangulaires. [Exceptional coverings and sums of four triangular numbers] **94f:14026**
— Revêtements tangentiels et condition de Brill-Noether. (English and French summaries) [Tangential coverings and the Brill-Noether condition] **94b:14023**
Uehara, Tsuyoshi *see* **Kusunoki, Takamitsu, 94k:14023**

Vainsencher, Israel (*with* Avritzer, Dan) Compactifying the space of elliptic quartic curves. **94c:14027**
Verdier, Jean-Louis *see* **Treibich, Armando, 94f:14026**

Items with secondary classifications in 14H52

Beilinson, A. A. (*with* Levin, A.) The elliptic polylogarithm. **94m:11067**
Beth, Thomas (*with* Schaefer, F.) Nonsupersingular elliptic curves for public key cryptosystems. (English summary) (*see* **94b:94003**)
Chahal, Jasbir Singh A note on the rank of quadratic twists of an elliptic curve. **94m:11068**
Cohen, Henri Elliptic curves. **94e:11063**
Ein, Lawrence (*with* Lazarsfeld, Robert) Stability and restrictions of Picard bundles, with an application to the normal bundles of elliptic curves. **94a:14015**
Fouvry, Étienne (*with* Pomykała, Jacek) Rang des courbes elliptiques et sommes d'exponentielles. (English summary) [Rank of elliptic curves and exponential sums] **94g:11037**
Hansen, Johan P. Deligne-Lusztig varieties and group codes. (English summary) **94e:94024**
Howe, Everett W. On the group orders of elliptic curves over finite fields. (English summary) **94a:11089**
Kempf, George R. A problem of Narasimhan. **94e:14043**
Koblitz, Neal ★ Introduction to elliptic curves and modular forms. (English summary) **94a:11078**
Lazarsfeld, Robert *see* **Ein, Lawrence, 94a:14015**
Levin, A. *see* **Beilinson, A. A., 94m:11067**
Odesskiĭ, A. V. Rational degeneration of elliptic quadratic algebras. **94c:16045**
Papadopoulos, Ioannis Sur la classification de Néron des courbes elliptiques en caractéristique résiduelle 2 et 3. (French summary) [On Néron's classification of elliptic curves for characteristic 2 and 3 of the residue field] **94g:11038**
Pomykała, Jacek *see* **Fouvry, Étienne, 94g:11037**
Ribet, Kenneth A. Abelian varieties over Q and modular forms. **94g:11042**
— Wiles proves Taniyama's conjecture; Fermat's last theorem follows. **94e:11065**
Schaefer, F. *see* **Beth, Thomas, (94b:94003)**
Shioda, Tetsuji Some remarks on elliptic curves over function fields. (English summary) **94d:11046**
Takahashi, Shuzo The fundamental domain of the tree of GL(2) over the function field of an elliptic curve. **94k:11067**

14H55 Riemann surfaces; Weierstrass points; gap sequences [see also 30Fxx]

Farkas, Hershel M. Identities on compact Riemann surfaces. **94g:14017**
García, Arnaldo On higher-order Weierstrass points and the finiteness of the automorphism group. (English summary) **94a:14035**
— (*with* Lax, Robert F.) Weierstrass weight of Gorenstein singularities with one or two branches. (English summary) **94j:14032**
Giorgadze, G. K. On the monodromy of principal bundles on Riemann surfaces. (Russian and Georgian summaries) **94a:14036**
Homma, Masaaki Linear systems on curves with no Weierstrass points. (English summary) **94c:14028**
Kim, Seon Jeong On the index of the Weierstrass semigroup of a pair of points on a curve. **94m:14039**
Kuribayashi, Akikazu (*with* Ohmori, Shoji) The character theory of groups and automorphism groups of Riemann surfaces. II. (Japanese. English summary) **94h:14033**
Lax, Robert F. *see* **García, Arnaldo, 94j:14032**
Ohmori, Shoji *see* **Kuribayashi, Akikazu, 94h:14033**

Items with secondary classifications in 14H55

Bikbaev, R. F. (*with* Kuksin, S. B.) On the parametrization of finite-gap solutions by frequency and wavenumber vectors and a theorem of I. Krichever. (English summary) **94e:58052**
Bujalance, Emilio (*with* Costa, Antonio F.; Natanzon, S. M.; Singerman, David) Involutions of compact Klein surfaces. **94i:30039**
Costa, Antonio F. *see* **Bujalance, Emilio; et al., 94i:30039**
García, Arnaldo Some arithmetic properties of order-sequences of algebraic curves. (English summary) **94c:14004**
— (*with* Kim, Seon Jeong; Lax, Robert F.) Consecutive Weierstrass gaps and minimum distance of Goppa codes. (English summary) **94d:94019**
Kim, Seon Jeong *see* **García, Arnaldo; et al., 94d:94019**
Kuksin, S. B. *see* **Bikbaev, R. F., 94e:58052**
Lax, Robert F. *see* **García, Arnaldo; et al., 94d:94019**
Lazarsfeld, Robert Cohomology on symmetric products, syzygies of canonical curves, and a theorem of Kempf. **94g:14008**
Masterson, John T. Uniqueness of affine structures on Riemann surfaces. **94b:30051**
May, Coy L. (*with* Zimmerman, Jay) The symmetric genus of finite abelian groups. **94m:20099**
Merriman, J. R. (*with* Smart, N. P.) Curves of genus 2 with good reduction away from 2 with a rational Weierstrass point. (English summary) **94h:14031**
Natanzon, S. M. *see* **Bujalance, Emilio; et al., 94i:30039**
Novikov, S. P. Riemann surfaces, operator fields, strings—analogues of the Fourier-Laurent bases. **94f:81155**
Reyssat, Éric Galois theory for coverings and Riemann surfaces. **94e:14036**
Singerman, David *see* **Bujalance, Emilio; et al., 94i:30039**
Smart, N. P. *see* **Merriman, J. R., 94h:14031**
Sobczyk, Jan Current-current correlation function on algebraic curves. (English summary) **94d:81206**
Stöhr, Karl-Otto On the poles of regular differentials of singular curves. (English summary) **94e:14035**
Turbek, Peter On compact Riemann surfaces with a maximal number of automorphisms. **94i:30036**
Yoshida, Katsuaki Automorphisms with fixed points and Weierstrass points of compact Riemann surfaces. **94j:30040**
Zimmerman, Jay *see* **May, Coy L., 94m:20099**

14H60 Vector bundles on curves [see also 14F05]

Arrondo, Enrique (*with* Sols Lucía, Ignacio) Bounding sections of bundles on curves. **94c:14029**
Bertram, Aaron Complete extensions and their map to moduli space. **94b:14024**
Butler, David C. Normal generation of vector bundles over a curve. **94k:14024**
Davis, Edward D. Complements to a theorem of Gherardelli: the postulational viewpoint. **94e:14042**
Fay, John D. The nonabelian Szegő kernel and theta-divisor. **94b:14025**
Gatto, Letterio (*with* Previato, Emma) A remark on Griffiths' cohomological interpretation of Lax equations: higher-genus case. (Italian summary) **94i:14035**
Kempf, George R. A problem of Narasimhan. **94e:14043**
Previato, Emma *see* **Gatto, Letterio, 94i:14035**
Sols Lucía, Ignacio *see* **Arrondo, Enrique, 94c:14029**
Sorger, Christoph Thêta-caractéristiques des courbes tracées sur une surface lisse. [Theta characteristics of curves lying on a smooth surface] **94b:14026**
Tan, Xiao Jiang On the existence theorem of special two-dimensional indecomposable vector bundles. (English summary) **94j:14033**

Items with secondary classifications in 14H60

Adams, Malcolm (*with* Bergvelt, M. J.) The Krichever map, vector bundles over algebraic curves, and Heisenberg algebras. (English summary) **94k:58055**
Balaji, V. (*with* Vishwanath, P. A.) On the deformation of certain moduli spaces of vector bundles. **94c:14008**
Ballico, Edoardo Real moduli of complex objects: surfaces and bundles. (English summary) **94g:14003**
Bergvelt, M. J. *see* **Adams, Malcolm, 94k:58055**
Bhosle, Usha N. Addendum to the paper: "Generalized parabolic sheaves on an integral projective curve" [Proc. Indian Acad. Sci. Math. Sci. **102** (1992), no. 1, 13–22; MR 93h:14007]. **94b:14011**
Bifet, Emili (*with* Ghione, Franco; Letizia, Maurizio) On the Betti numbers of the moduli space of stable bundles of rank two on a curve. **94j:14014**
Brambila Paz, L. Nonsimple semistable vector bundles over a curve. **94a:14005**
Daskalopoulos, Georgios (*with* Wentworth, Richard) The integrability criterion in SU(2) Chern-Simons gauge theory. (English summary) **94i:14014**
— (*with* Wentworth, Richard) Local degeneration of the moduli space of vector bundles and factorization of rank two theta functions. I. **94m:32028**
Duflot, Jeanne Gaussian maps for double coverings. **94m:14016**
Faltings, Gerd Stable G-bundles and projective connections. **94i:14015**
Ghione, Franco *see* **Bifet, Emili; et al., 94j:14014**
Giorgadze, G. K. On the monodromy of principal bundles on Riemann surfaces. (Russian and Georgian summaries) **94a:14036**
Gushel′, N. P. Very ample divisors on projective bundles over curves. (Russian. Russian summary) **94c:14005**
Kouvidakis, Alexis On the moduli space of vector bundles on the fibers of the universal curve. (English summary) **94h:14010**
Lazarsfeld, Robert Cohomology on symmetric products, syzygies of canonical curves, and a theorem of Kempf. **94g:14008**
Lenzing, Helmut (*with* Meltzer, Hagen) Sheaves on a weighted projective line of genus one and representations of a tubular algebra. **94d:16019**
— (*with* Meltzer, Hagen) Sheaves on a weighted projective line of genus one, and representations of a tubular algebra [MR 94d:16019]. (English summary) (*see* **94j:16002**)
Letizia, Maurizio *see* **Bifet, Emili; et al., 94j:14014**
Li, Yingchen A singularity theorem in Brill-Noether theory of higher rank. **94h:14011**
Meltzer, Hagen *see* **Lenzing, Helmut, 94d:16019** *and* **(94j:16002)**
Narasimhan, M. S. (*with* Ramadas, T. R.) Factorisation of generalised theta functions. I. (English summary) **94i:14017**
Ramadas, T. R. *see* **Narasimhan, M. S., 94i:14017**
Rothstein, Mitchell A spin-0 version of the Krichever correspondence. **94d:58075**
Stora, Raymond Local holomorphic factorization for free conformal fields. (English summary) **94d:81207**
Teixidor i Bigas, Montserrat (*with* Tu, Loring W.) Theta divisors for vector bundles. (English summary) **94a:14007**
Tu, Loring W. Semistable bundles over an elliptic curve. (English summary) **94a:14008**
— *see also* **Teixidor i Bigas, Montserrat, 94a:14007**
Vishwanath, P. A. *see* **Balaji, V., 94c:14008**
Wentworth, Richard *see* **Daskalopoulos, Georgios, 94i:14014** *and* **94m:32028**

14H99 None of the above, but in this section

Chiantini, L. (*with* Ciliberto, Ciro; Di Gennaro, V.) The genus of projective curves. **94b:14027**
Ciliberto, Ciro *see* **Chiantini, L.; et al., 94b:14027**
Di Gennaro, V. *see* **Chiantini, L.; et al., 94b:14027**
Ellia, Philippe (*with* Strano, Rosario) Sections planes et majoration du genre des courbes gauches. [Plane sections and upper bound for the genus of space curves] **94b:14028**
Strano, Rosario *see* **Ellia, Philippe, 94b:14028**

Items with secondary classifications in 14H99

Ballico, Edoardo On the general osculating flag of a projection of a curve in char. p. (English summary) **94i:14006**
— On secant spaces to projective curves. **94b:14005**
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14Jxx Surfaces and higher-dimensional varieties {For analytic theory, see 32Jxx.}

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14J05 Picard group [see also 14C22, 19A49, 32L05]

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14J10 Families, moduli, classification: algebraic theory

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Cukierman, Fernando (*with* Ulmer, Douglas) Curves of genus ten on $K3$ surfaces. **94m:14047**
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14J15 Moduli, classification: analytic theory [see also 32G13, 32J15]

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Bădescu, Lucian Polarized varieties with no deformations of negative weights. **94e:14009**
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Ciliberto, Ciro *see* **Catanese, F., 94i:14040**
Matsumoto, Keiji Theta functions on the bounded symmetric domain of type $I_{2,2}$ and the period map of a 4-parameter family of $K3$ surfaces. **94m:32049**
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14J17 Singularities of surfaces

Cutkosky, Steven Dale (*with* Srinivasan, Hema) Local fundamental groups of surface singularities in characteristic p. **94h:14035**
DeMeyer, Frank (*with* Ford, Tim; Miranda, Rick) Rational singularities and the Brauer group. **94m:14042**
Ford, Tim *see* **DeMeyer, Frank; et al., 94m:14042**
Grassi, Antonella The singularities of the parameter surface of a minimal elliptic threefold. **94h:14036**
Hodges, Timothy J. Noncommutative deformations of type-A Kleinian singularities. (English summary) **94i:14038**
Koras, Mariusz A characterization of $\mathbf{A}^2/\mathbf{Z}_a$. **94e:14045**
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Stevens, Jan Partial resolutions of quotient singularities. **94b:14030**
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14J20 Arithmetic ground fields [see also 11Dxx, 11G25, 11G35, 14Gxx]

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arithmetic surface. **94k:14026**
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Items with secondary classifications in 14J20

Ballet, Bernard Genre de courbes lisses tracées sur certaines surfaces rationnelles de $\mathbf{P}^3$. (English and French summaries) [Genus of smooth curves on certain rational surfaces in $\mathbf{P}^3$] **94j:14030**
Blass, Josef (*with* Blass, Piotr; Lang, Jeffrey) Zariski surfaces. I. Definition and general properties. The theory of adjoints. **94m:14044**
Blass, Piotr *see* **Blass, Josef; et al., 94m:14044**
Lang, Jeffrey *see* **Blass, Josef; et al., 94m:14044**
Manin, Yu. I. Notes on the arithmetic of Fano threefolds. **94c:11053**
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Usui, Hisashi On Mordell-Weil lattices of type D_5. (English summary) **94j:14036**
Yanchevskiĭ, V. I. K-unirationality of conic bundles over large arithmetic fields. (English summary) **94m:14027**

14J25 Special surfaces {For Hilbert modular surfaces, see 14G35.}

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Alexander, James Ernest Speciality one rational surfaces in $\mathbf{P}^4$. **94d:14031**
Aure, Alf Bjørn (*with* Ranestad, Kristian) The smooth surfaces of degree 9 in $\mathbf{P}^4$. **94f:14029**
— (*with* Decker, Wolfram; Popescu, Sorin; Hulek, Klaus; Ranestad, Kristian) The geometry of bielliptic surfaces in $\mathbf{P}^4$. **94m:14043**
Ballico, Edoardo A few geometrical remarks in positive characteristic. (English summary) **94c:14033**
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— *see also* **Aure, Alf Bjørn; et al., 94m:14043**
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Shioda, Tetsuji Generalization of a theorem of Manin-Shafarevich. **94d:14034**
Swinnerton-Dyer, H. P. F. The Brauer group of cubic surfaces. **94a:14038**
Zhang, D.-Q. Noncomplete algebraic surfaces. (English summary) **94e:14048**

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d'Almeida, Jean (*with* Hirschowitz, André) Quelques plongements projectifs non spéciaux de surfaces rationnelles. [Some nonspecial projective embeddings of rational surfaces] **94a:14012**
Andreatta, M. Surfaces of sectional genus ≤ 8 with no trisecant lines. **94e:14005**
Arrondo, Enrique (*with* Gross, Mark) On smooth surfaces in $\mathrm{Gr}(1, \mathbf{P}^3)$ with a fundamental curve. **94h:14049**
Basili, Bénédicte (*with* Peskine, Christian) Décomposition du fibré normal des surfaces lisses de $\mathbf{P}_4$ et structures doubles sur les solides de $\mathbf{P}_5$. [Decomposition of the normal bundle of smooth surfaces in $\mathbf{P}_4$ and double structures on solids in $\mathbf{P}_5$] **94e:14056**
Beltrametti, Mauro C. (*with* Sommese, Andrew J.) On the preservation of k-very ampleness under adjunction. **94a:14002**
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Costa, Antonio F. (*with* Martínez, Ernesto) Planar hyperelliptic Klein surfaces and fundamental regions of NEC groups. **94b:30054**
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Harvey, W. J. Modular groups—geometry and physics. **94b:30055**
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14J26 Rational and ruled surfaces

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Gimigliano, A. (*with* Lorenzini, Anna) On the ideal of Veronesean surfaces. (English summary) **94f:14031**
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Li, Wei-Ping (*with* Qin, Zhenbo) Lower-degree Donaldson polynomial invariants of rational surfaces. **94f:14032**
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Miró-Roig, Rosa M. The moduli spaces of rank 2 stable vector bundles over Veronesean surfaces. **94h:14012**
Mong, Kai-Cheong Polynomial invariants for 4-manifolds of type $(1, n)$ and a calculation for $S^2 \times S^2$. **94e:57050**
Treibich, Armando Revêtements tangentiels et condition de Brill-Noether. (English and French summaries) [Tangential coverings and the Brill-Noether condition] **94b:14023**

14J27 Elliptic surfaces

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Fujita, Takao On certain polarized elliptic surfaces. **94e:14050**
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Kuwata, Masato (*with* Wang, Lan) Topology of rational points on isotrivial elliptic surfaces. **94a:11079**
Lejarraga, Pablo The moduli of Weierstrass fibrations over $\mathbf{P}^1$: rationality. **94e:14044**
Morgan, John W. (*with* Mrowka, Tomasz S.) On the diffeomorphism classification of regular elliptic surfaces. **94g:57035**
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Serrano, Fernando Fibrations on algebraic surfaces. **94d:14005**
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14J28 $K3$ surfaces and Enriques surfaces

Brivio, Sonia Smooth Enriques surfaces in $\mathbf{P}^4$ and exceptional bundles. **94m:14046**
Ciliberto, Ciro (*with* Lopez, Angelo Felice; Miranda, Rick) Projective degenerations of $K3$ surfaces, Gaussian maps, and Fano threefolds. (English summary) **94k:14028**
Cukierman, Fernando (*with* Ulmer, Douglas) Curves of genus ten on $K3$ surfaces. **94m:14047**
Gonzalez-Dorrego, Maria R. $(16, 6)$ configurations and geometry of Kummer surfaces in $\mathbf{P}^3$. (English summary) **94f:14034**
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Miranda, Rick *see* **Ciliberto, Ciro; et al., 94k:14028**
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— (*with* Sujatha, R.) On Brauer groups of real Enriques surfaces. **94m:14048**
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Urabe, Tohsuke On Nikulin's theorem on fixed components of linear systems on $K3$ surfaces. **94h:14039**

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Ballico, Edoardo (*with* Chiantini, L.) On some moduli spaces of rank 2 bundles over $K3$ surfaces. (Italian summary) **94i:14012**

Berry, T. G. Points at rational distance from the vertices of a triangle. **94e:14071**
Chiantini, L. *see* **Ballico, Edoardo, 94i:14012**
Ciliberto, Ciro (*with* Verra, A.) On the surjectivity of the Gaussian map for Prym-canonical line bundles on a general curve. **94e:14033**
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Itenberg, I. V. Rigid isotopic classification of the simplest degenerations of M-curves of degree 6. (Russian. English and Russian summaries) **94a:14057**
Ito, Hiroyuki The Mordell-Weil groups of unirational quasi-elliptic surfaces in characteristic 3. **94d:14035**
Kim, Hoil The relationship between the moduli spaces of vector bundles on $K3$ surfaces and Enriques surfaces. (*see* **94a:00011**)
Matsumoto, Keiji Theta functions on the bounded symmetric domain of type $I_{2,2}$ and the period map of a 4-parameter family of $K3$ surfaces. **94m:32049**
— (*with* Sasaki, Takeshi; Yoshida, Masaaki) Recent progress of Gauss-Schwarz theory and related geometric structures. **94k:32033**
Matumoto, Takao Homologically trivial smooth involutions on $K3$ surfaces. (English summary) **94e:57022**
Miranda, Rick *see* **DeMeyer, Frank; et al., 94m:14042**
Naie, Daniel Surfaces d'Enriques et une construction de surfaces de type général avec $p_g = 0$. [Enriques surfaces and a construction of surfaces of general type with $p_g = 0$] **94m:14055**
Nakashima, Tohru Moduli of stable rank two bundles with ample c_1 on $K3$ surfaces. **94e:14060**
Oguiso, Keiji A remark on the global indices of Q-Calabi-Yau 3-folds. **94h:14041**
Ohhira, Mari Supersingular $K3$ surfaces with various values of the Artin invariant in characteristic 2. **94j:14035**
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Zarkhin, Yu. G. Transcendental cycles on ordinary $K3$ surfaces over finite fields. **94m:14026**

14J29 Surfaces of general type

Ballico, Edoardo On the automorphisms of surfaces of general type in positive characteristic. (English and Italian summaries) **94m:14050**
Brussee, Rogier On the (-1)-curve conjecture of Friedman and Morgan. (English summary) **94m:14051**
Catanese, F. (*with* Ciliberto, Ciro) Symmetric products of elliptic curves and surfaces of general type with $p_g = q = 1$. **94i:14040**
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van Straten, Duco A quintic hypersurface in $\mathbf{P}^4$ with 130 nodes. **94h:14044**
Zelevinsky, A. V. *see* **Gel'fand, I. M.; et al., 94g:14023**

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Choudary, A. D. R. (*with* Dimca, Alexandru) Koszul complexes and hypersurface singularities. (English summary) **94j:13017**
Dimca, Alexandru ★ Singularities and topology of hypersurfaces. **94b:32058**
— *see also* **Choudary, A. D. R., 94j:13017**
Herzog, Jürgen (*with* Martsinkovsky, Alex) Gluing Cohen-Macaulay modules with applications to quasihomogeneous complete intersections with isolated singularities. **94h:14006**
Koelblen, Laurent Surfaces de $\mathbf{P}_4$ tracées sur une hypersurface cubique. [Surfaces in $\mathbf{P}_4$ traced on a cubic hypersurface] **94a:14052**
Le Potier, Joseph (*with* Bănică, Constantin) Fibrés vectoriels topologiques de rang élevé sur une hypersurface. (English and French summaries) [Topological vector bundles of high rank on a hypersurface] **94g:19006**
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McKernan, James Varieties with isomorphic or birational hyperplane sections. **94f:14028**
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14J99 None of the above, but in this section

Chang, Mei-Chu The slopes of surfaces in $\mathbf{P}^4$ and rational expressions in Newton functions.
tom Dieck, Tammo (*with* Petrie, Ted) Homology planes and algebraic curves. **94k:14038**
Mezzetti, Emilia (*with* Raspanti, I.) A Laudal-type theorem for surfaces in $\mathbf{P}^4$. (English summary) **94b:14037**
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Bochnak, J. (*with* Kucharz, W.) Elliptic curves and real algebraic morphisms. **94e:14072**
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Kobayashi, Ryoichi Ricci-flat Kähler metrics on affine algebraic manifolds and degenerations of Kähler-Einstein $K3$ surfaces. **94c:53082**
Kotschick, D. On connected sum decompositions of algebraic surfaces and their fundamental groups. **94h:57039**
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Vaquié, Michel Irrégularité des revêtements cycliques des surfaces projectives non singulières. [Irregularity of cyclic coverings of nonsingular projective surfaces] **94d:14015**

14Kxx Abelian varieties and schemes

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Items with secondary classifications in 14Kxx

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Lange, Herbert (*with* Birkenhake, Christina) ★ Complex abelian varieties. **94j:14001**

14K02 Isogeny

Kim, Ki Hang (*with* Roush, F. W.) A decision procedure for certain abelian varieties over function fields. (English summary) **94m:14060**
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Silverberg, Alice (*with* Zarkhin, Yu. G.) Isogenies of abelian varieties. (English summary) **94j:14040**
Zarkhin, Yu. G. *see* **Silverberg, Alice, 94j:14040**

14K05 Algebraic theory

Birkenhake, Christina (*with* Lange, Herbert; Ramanan, S.) Primitive line bundles on abelian threefolds. **94j:14041**
Khaled, Abdelhamid Équations des variétés de Kummer. [Equations of Kummer varieties] **94h:14046**
Lange, Herbert *see* **Birkenhake, Christina; et al., 94j:14041**
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Sasaki, Ryuji Very ample invertible sheaves of new type on abelian varieties. **94m:14061**

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Buium, Alexandru (*with* Voloch, José Felipe) Integral points of abelian varieties over function fields of characteristic zero. **94i:14029**
Ekedahl, Torsten (*with* Serre, Jean-Pierre) Exemples de courbes algébriques à jacobienne complètement décomposable. (English and French summaries) [Examples of algebraic curves with totally split Jacobian] **94j:14029**
Kim, Ki Hang (*with* Roush, F. W.) A decision procedure for certain abelian varieties over function fields. (English summary) **94m:14060**
Murty, V. Kumar ★ Introduction to abelian varieties. **94h:14045**
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Weng, Lin From subvarieties of abelian varieties to Kobayashi hyperbolic manifolds: after P. Vojta and G. Faltings. **94m:11076**

14K10 Algebraic moduli, classification

Brasch, Hans-Jürgen Lifting level D-structures of abelian varieties. **94b:14038**
Debarre, Olivier Vers une stratification de l'espace des modules des variétés abéliennes principalement polarisées. [Toward a stratification of the moduli space of principally polarized abelian varieties] **94b:14039**
— Le lieu des variétés abéliennes dont le diviseur thêta est singulier a deux composantes. [The locus of abelian varieties whose theta divisor is singular has two components] **94a:14045**
de Jong, A. J. The moduli spaces of principally polarized abelian varieties with $\Gamma_0(p)$-level structure. **94d:14042**
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Smith, Roy Campbell (*with* Varley, Robert) A homological criterion for reducibility of analytic spaces, with application to characterizing the theta divisor of a product of two general principally polarized abelian varieties. (English summary) **94k:14040**
Varley, Robert *see* **Smith, Roy Campbell, 94k:14040**
Wang, Wenxiang On the moduli space of principally polarized abelian varieties. (English summary) **94f:14043**
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Items with secondary classifications in 14K10

Audin, Michèle (*with* Silhol, Robert) Variétés abéliennes réelles et toupie de Kowalevski. [Real abelian varieties and Kovalevskaya's top] **94h:58082**
Cohen, Paula Beazley (*with* Wolfart, Jürgen) Fonctions hypergéométriques en plusieurs variables et espaces des modules de variétés abéliennes. (English summary) [Hypergeometric functions in several variables and moduli spaces of abelian varieties] **94j:14027**
Gerritzen, L. Equations defining the periods of totally degenerate curves. (English summary) **94f:14009**
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Wang, Weiben On the twist of abelian varieties defined by the Galois extension of prime degree. (English summary) **94m:11070**
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Yoshida, Katsuaki Local injectivity of Prym maps for some families of compact Riemann surfaces. **94f:14022**

14K15 Arithmetic ground fields [see also 11Dxx, 11Fxx, 11Gxx, 14Gxx]

Boxall, John Autour d'un problème de Coleman. (English and French summaries) [On a problem of Coleman] **94a:14046**
Zarkhin, Yu. G. Abelian varieties of $K3$ type and l-adic representations. **94i:14047**

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Grant, David Integer points on curves of genus two and their Jacobians. (English summary) **94j:11054**
Kahn, Bruno Nullité de certains groupes attachés aux variétés semi-abéliennes sur un corps fini; application. (English summary) [Vanishing of certain groups attached to semi-abelian varieties over a finite field: an application] **94b:19006**
Lee, Min Ho Conjugates of (H_2)-equivariant maps of symmetric domains. **94e:14029**
Lockhart, Paul (*with* Rosen, Michael; Silverman, Joseph H.) An upper bound for the conductor of an abelian variety. **94d:11039**
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Masser, David (*with* Wüstholz, Gisbert) Periods and minimal abelian subvarieties. **94g:11040**
van der Put, Marius Discrete groups, Mumford curves and theta functions. (English and French summaries) **94h:14021**
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14K20 Analytic theory; abelian integrals and differentials

Martens, Henrik H. On the reduction of Abelian integrals and a problem of H. Hopf. (English summary) **94a:14047**
Silhol, Robert Normal forms for period matrices of real curves of genus 2 and 3. (English summary) **94e:14061**

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Bost, Jean-Benoît Introduction to compact Riemann surfaces, Jacobians, and abelian varieties. **94f:32045**
Cohen, Paula Beazley (*with* Wolfart, Jürgen) Algebraic Appell-Lauricella functions. (English summary) **94f:33024**
Dick, Rainer Topological aspects of chiral fields in two dimensions and superstring vertices. (English summary) **94d:81142**
Mok, Ngaiming (*with* To, Wing-Keung) Eigensections on Kuga families of abelian varieties and finiteness of their Mordell-Weil groups. **94m:32045**
Saitô, Masa-Hiko On Mordell-Weil groups of abelian schemes. **94j:14013**
Schindler, Bernhard Period matrices of hyperelliptic curves. **94c:14025**
Simpson, Carlos T. Lefschetz theorems for the integral leaves of a holomorphic one-form. **94h:32065**
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14K22 Complex multiplication [see also 11G15]

White, Samuel P. Sporadic cycles on CM abelian varieties. **94i:14048**

14K25 Theta functions

Bukhshtaber, V. M. (*with* Krichever, Ios. M.) Vector addition theorems and Baker-Akhiezer functions. (Russian. English and Russian summaries) **94h:14047**
Ehrenpreis, Leon The Schottky relation in genus 4. **94e:14062**
Gerritzen, L. On the algebra of totally degenerate theta functions. **94i:14049**
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Lee, Min Ho The reduction of solutions of some integrable partial differential equations. (English summary) **94b:14041**
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Alimohammadi, M. (*with* Arfaei, H.) $SU(N)_1$ correlation functions on higher-genus Riemann surfaces. (English summary) **94k:81234**
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Debarre, Olivier Le lieu des variétés abéliennes dont le diviseur thêta est singulier a deux composantes. [The locus of abelian varieties whose theta divisor is singular has two components] **94a:14045**
Farkas, Hershel M. Identities on compact Riemann surfaces. **94g:14017**
— (*with* Kra, Irwin) Automorphic forms for subgroups of the modular group. (English summary) **94e:11040**
Fel'shtyn, A. L. The connection between the Reidemeister torsion, η-invariant, Rochlin invariant and theta multipliers via the dynamical zeta function. **94m:58229**
González Díez, Gabino Theta functions on the boundary of moduli space. (English summary) **94c:32013**
Harnad, J. (*with* Wisse, M.-A.) Isospectral flow in loop algebras and quasiperiodic solutions of the sine-Gordon equation. (English summary) **94h:58088**
Iguchi, Kazumoto Exact wave functions of an electron on a quasiperiodic lattice: definition of an infinite-dimensional Riemann theta function. (English summary) **94a:81018**
Jarnicki, Marek (*with* Pflug, Peter) The inner Carathéodory distance for the annulus. II. **94f:32049**
Kashiwara, Masaki (*with* Kawai, Takahiro; Takei, Yoshitsugu) The structure of cohomology groups associated with the theta-zerovalues. **94k:32011**
Kawai, Takahiro *see* **Kashiwara, Masaki; et al., 94k:32011**
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Li, Dingping Hierarchical wave functions of fractional quantum Hall effect on the torus. (English summary) **94i:81153**
Matveev, V. B. (*with* Smirnov, A. O.) Symmetric reductions of the Riemann θ-function and some of their applications to the Schrödinger and Boussinesq equations [MR 89b:58094]. (English summary) (*see* **94g:00020**)
Peetre, Jaak The periodic Fock bundle. (English summary) **94a:58011**
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Piovan, Luis A. Canonical system on elliptic curves. (English summary) **94a:14034**
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Smith, Roy Campbell (*with* Varley, Robert) A homological criterion for reducibility of analytic spaces, with application to characterizing the theta divisor of a product of two general principally polarized abelian varieties. (English summary) **94k:14040**
Sorger, Christoph Thêta-caractéristiques des courbes tracées sur une surface lisse. [Theta characteristics of curves lying on a smooth surface] **94b:14026**
Takei, Yoshitsugu *see* **Kashiwara, Masaki; et al., 94k:32011**
Teixidor i Bigas, Montserrat (*with* Tu, Loring W.) Theta divisors for vector bundles. (English summary) **94a:14007**
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14K30 Picard schemes, higher Jacobians [see also 14H40, 32G20]

Beauville, Arnaud Annulation du H^1 pour les fibrés en droites plats. [Vanishing of H^1 for flat line bundles] **94a:14048**
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14Lxx Group schemes {For linear algebraic groups, see 20Gxx. For Lie algebras, see 17B45.}

14L05 Formal groups, p-divisible groups [see also 55N22]

Nadiradze, R. G. Formal groups of the type $((A(y)x^2 - A(x)y^2)/(B(y)x - B(x)y))\Psi(xy)$. (Russian and Georgian summaries) **94f:14045**

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Anderson, Greg W. On Tate modules of formal t-modules. **94e:11067**
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Benua, D. G. (*with* Vostokov, S. V.) Sur les représentations p-adiques des corps locaux multidimensionnels attachés aux groupes formels. [On the p-adic representations of multidimensional local fields associated with formal groups] **94c:11112**
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Hopkins, Michael J. (*with* Gross, Benedict H.) The rigid analytic period mapping, Lubin-Tate space, and stable homotopy theory. (English summary) **94k:55009**
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14L10 Group varieties

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Hirata-Kohno, Noriko Approximations simultanées sur les groupes algébriques commutatifs. [Simultaneous approximations on commutative algebraic groups] **94b:11067**
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14L15 Group schemes

Colliot-Thélène, Jean-Louis (*with* Ojanguren, Manuel) Espaces principaux homogènes localement triviaux. [Locally trivial principal homogeneous spaces] **94a:14049**
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Xarles, Xavier The scheme of connected components of the Néron model of an algebraic torus. **94d:14044**

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Brown, Martin Lawrence The density of rational and integral points on algebraic varieties. **94d:11041**
Douai, Jean-Claude Espaces homogènes rationnellement triviaux et arithmétique des schémas en groupes réductifs sur les anneaux de Dedekind. (English and French summaries) [Rationally trivial homogeneous spaces and arithmetic of reductive group schemes over Dedekind rings] **94k:14044**
Nizioł, Wiesława Cohomology of crystalline representations. **94g:11045**
Saitô, Masa-Hiko Classification of nonrigid families of abelian varieties. (English summary) **94d:14043**
Taylor, M. J. The Galois module structure of certain arithmetic principal homogeneous spaces. **94a:11178**

14L17 Affine algebraic groups, hyperalgebra constructions [see also 17B45, 18D35]

Items with secondary classifications in 14L17

Gross, David L. Higher nullcones and commuting varieties. **94g:20059**

14L27 Automorphism groups [see also 14E09]

Kempf, George R. Jacobians and invariants. **94b:14043**

Items with secondary classifications in 14L27

Waterhouse, William C. Automorphism group schemes of semisimple cosemisimple Hopf algebras. **94e:16049**

14L30 Group actions on varieties or schemes (quotients) [see also 14D25]

Aluffi, Paolo (*with* Faber, Carel) Linear orbits of d-tuples of points in $\mathbf{P}^1$. **94j:14044**
Białynicki-Birula, Andrzej On actions of $\mathbf{C}^*$ on algebraic spaces. (English and French summaries) **94c:14040**
— On induced actions of algebraic groups. (English and French summaries) **94c:14041**
Brion, Michel Variétés sphériques et théorie de Mori. [Spherical varieties and Mori theory] **94j:14045**
Brylinski, Ranee Kathryn Matrix concomitants with the mixed tensor model. **94h:14048**
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Greuel, Gert-Martin (*with* Pfister, Gerhard) Geometric quotients of unipotent group actions. **94e:14064**
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Renner, Lex E. Towards a generalized Bruhat decomposition. **94a:14051**
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Seelinger, George F. The étale local structure of orthogonal and symplectic matrix invariants. **94j:14046**
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Wehlau, David L. Equidimensional varieties and associated cones. **94f:14046**
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Bien, Frédéric Orbits, multiplicities and differential operators. **94g:22027**
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Bremigan, Ralph J. Galois cohomology and real algebraic quotients. (English summary) **94h:20052**
Brylinski, Ranee Kathryn (*with* Kostant, Bertram) Nilpotent orbits, normality and Hamiltonian group actions. **94g:22031**
Carrell, James B. Bruhat cells in the nilpotent variety and the intersection rings of Schubert varieties. **94e:14067**
Gabriel, Peter (*with* Roiter, A. V.) Representations of finite-dimensional algebras. **94h:16001b**
Hübsch, Tristan (*with* Yau, Shing-Tung) An $\mathrm{SL}(2,\mathbf{C})$ action on certain Jacobian rings and the mirror map. (English summary) (*see* **94b:32001**)
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Kim, Dae San *see* **Rabau, Patrick, 94m:20098**
Knop, Friedrich Über Hilberts vierzehntes Problem für Varietäten mit Kompliziertheit eins. [On Hilbert's fourteenth problem for varieties with complexity one] **94b:14050**
Koras, Mariusz A characterization of $\mathbf{A}^2/\mathbf{Z}_q$. **94e:14045**
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(Kostrikin, Aleksei Ivanovich) *see* **Algebra, 94h:16001a**
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Li, Jun Kodaira dimension of moduli space of vector bundles on surfaces. **94i:14016**
Moser-Jauslin, Lucy Triviality of certain equivariant vector bundles for finite cyclic groups. (English and French summaries) **94e:14059**
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Rabau, Patrick (*with* Kim, Dae San) Products of symplectic groups acting on isotropic subspaces. (English summary) **94m:20098**
Restuccia, Gaetana (*with* Tyc, Andrzej) Regularity of the ring of invariants under certain actions of finite abelian Hopf algebras in characteristic p. **94e:16047**
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— Gordan ideals in the theory of binary forms. **94i:13003b**
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14L35 Classical groups (geometric aspects) [see also 20Gxx, 51N30]

Schwarz, Gerald W. (*with* Zhu, Chen-bo) Invariant differential operators on symplectic Grassmann manifolds. (English summary) **94k:14041**
Zhu, Chen-bo *see* **Schwarz, Gerald W., 94k:14041**

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Brylinski, Ranee Kathryn Matrix concomitants with the mixed tensor model. **94h:14048**

Grosshans, Frank D. The symbolic method and representation theory. **94d:13009**
Huo, Yuan Ji (*with* Liu, Yingsheng; Wan, Zhe Xian) Lattices generated by transitive sets of subspaces under finite classical groups. III. The orthogonal case of even characteristic. **94f:20091**
Liu, Yingsheng *see* **Huo, Yuan Ji; et al., 94f:20091**
Scognamillo, Renata The canonical combinatorial sheaf associated to an involution of a semisimple adjoint group. Case A_n. **94b:14051**
Wan, Zhe Xian On the symplectic invariants of a subspace of a vector space. **94k:58052**
— *see also* **Huo, Yuan Ji; et al., 94f:20091**

14Mxx Special varieties

14M05 Varieties defined by ring conditions (factorial, Cohen-Macaulay, seminormal) [see also 13C14, 13F45, 13H10]

Cavaliere, M. P. (*with* Rossi, M. E.; Valla, Giuseppe) The Green-Lazarsfeld conjecture for $n+4$ points in $\mathbf{P}^n_k$. (English summary) **94e:14066**
Huneke, Craig L. (*with* Ulrich, Bernd) General hyperplane sections of algebraic varieties. **94b:14046**
Mezzetti, Emilia The border cases of the lifting theorem for surfaces in $\mathbf{P}^4$. **94f:14047**
Rossi, M. E. *see* **Cavaliere, M. P.; et al., 94e:14066**
Ulrich, Bernd *see* **Huneke, Craig L., 94b:14046**
Valla, Giuseppe *see* **Cavaliere, M. P.; et al., 94e:14066**

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Cox, Cassandra Cylinderlike surfaces with multiple cylindrical fibrations. **94d:14032**
Flenner, Hubert (*with* Vogel, Wolfgang) Improper intersections and a converse to Bezout's theorem. **94j:14007**
Gimigliano, A. (*with* Lorenzini, Anna) On the ideal of Veronesean surfaces. (English summary) **94f:14031**
Goto, Shiro (*with* Nishida, Koji; Shimoda, Yasuhiro) The Gorensteinness of the symbolic blow-ups for certain space monomial curves. **94a:13002**
Katz, Sheldon H. Arithmetically Cohen-Macaulay curves cut out by quadrics. **94k:14021**
Lê Tuán Hoa (*with* Vogel, Wolfgang) Castelnuovo-Mumford regularity and hyperplane sections. **94m:13016**
Lorenzini, Anna The minimal resolution conjecture. (English summary) **94g:13005**
— *see also* **Gimigliano, A., 94f:14031**
Nishida, Koji *see* **Goto, Shiro; et al., 94a:13002**
Patil, Dilip P. Minimal sets of generators for the relation ideals of certain monomial curves. (English summary) **94h:14026**
Pruschke, Thilo Notes on questions of W. Vogel concerning the converse to Bézout's theorem. (English summary) **94j:14008**
Shimoda, Yasuhiro *see* **Goto, Shiro; et al., 94a:13002**
Vogel, Wolfgang *see* **Flenner, Hubert, 94j:14007** *and* **Lê Tuán Hoa, 94m:13016**
Zaare-Nahandi, R. Certain structures on the singular loci at $S_1^{(q)}$-type singularities. (English summary) **94e:14003**

14M06 Linkage [see also 13C40]

Geramita, Anthony V. (*with* Migliore, Juan Carlos) A generalized liaison addition. **94m:14066**
Koelblen, Laurent Surfaces de $\mathbf{P}_4$ tracées sur une hypersurface cubique. [Surfaces in $\mathbf{P}_4$ traced on a cubic hypersurface] **94a:14052**
Migliore, Juan Carlos Submodules of the deficiency module. **94i:14051**
— *see also* **Geramita, Anthony V., 94m:14066**
Walter, Charles H. Cohen-Macaulay liaison. **94i:14052**

Items with secondary classifications in 14M06

Beorchia, V. (*with* Ellia, Philippe) Normal bundle and complete intersections. (English summary) **94g:14016**
Bolondi, Giorgio (*with* Migliore, Juan Carlos) On curves with natural cohomology and their deficiency modules. (English and French summaries) **94h:14032**
— (*with* Migliore, Juan Carlos) The Lazarsfeld-Rao property on an arithmetically Gorenstein variety. (English summary) **94a:13008**
Ellia, Philippe *see* **Beorchia, V., 94g:14016**
Migliore, Juan Carlos *see* **Bolondi, Giorgio, 94a:13008** *and* **94h:14032**
Rao, Aroor Prabhakar Conormal bundles of determinantal curves. (English summary) **94k:14042**

14M07 Low codimension problems [see also 14Cxx]

Elías, Juan (*with* Miró-Roig, Rosa M.) A strange property of the sets of points in uniform position. **94b:14047**
Miró-Roig, Rosa M. *see* **Elías, Juan, 94b:14047**
Zak, F. L. ★ Tangents and secants of algebraic varieties. (English summary) **94i:14053**

Items with secondary classifications in 14M07

Ballico, Edoardo On the structure of cohomology of projective varieties. **94m:14022**
Beccari, G. (*with* Davis, Edward D.; Massaza, C.) Extremality with respect to the estimates of Dubreil-Campanella: the Hilbert matrix. (English summary) **94f:13007**
Davis, Edward D. *see* **Beccari, G.; et al., 94f:13007**
Massaza, C. *see* **Beccari, G.; et al., 94f:13007**
Ottaviani, Giorgio On 3-folds in $\mathbf{P}^5$ which are scrolls. **94a:14040**
Schneider, Michael Hellmut (*with* Zintl, Jörg) The theorem of Barth-Lefschetz as a consequence of Le Potier's vanishing theorem. **94i:14025**
Zintl, Jörg *see* **Schneider, Michael Hellmut, 94i:14025**

14M10 Complete intersections [see also 13C40]

Items with secondary classifications in 14M10

Ballico, Edoardo On varieties as hyperplane sections. **94d:14048**
Beccari, G. (*with* Davis, Edward D.; Massaza, C.) Extremality with respect to the estimates of Dubreil-Campanella: the Hilbert matrix. (English summary) **94f:13007**
Beorchia, V. (*with* Ellia, Philippe) Normal bundle and complete intersections. (English summary) **94g:14016**
Bolondi, Giorgio (*with* Migliore, Juan Carlos) On curves with natural cohomology and their deficiency modules. (English and French summaries) **94h:14032**
Davis, Edward D. *see* **Beccari, G.; et al., 94f:13007**
Elías, Juan (*with* Miró-Roig, Rosa M.) A strange property of the sets of points in uniform position. **94b:14047**
Ellia, Philippe *see* **Beorchia, V., 94g:14016**
Gastinger, W. (*with* Kunz, Ernst; Waldi, Rolf) Relation matrices of monomial curves. **94e:14039**
Kunz, Ernst Über den n-dimensionalen Residuensatz. [On the n-dimensional residue theorem] **94a:13026**
— *see also* **Gastinger, W.; et al., 94e:14039**
Massaza, C. *see* **Beccari, G.; et al., 94f:13007**
Migliore, Juan Carlos *see* **Bolondi, Giorgio, 94h:14032**
Miró-Roig, Rosa M. *see* **Elías, Juan, 94b:14047**
Waldi, Rolf *see* **Gastinger, W.; et al., 94e:14039**

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Flips and abundance for algebraic threefolds ★ Flips and abundance for algebraic threefolds. **94f:14013**
Salt Lake City, UT ★ Flips and abundance for algebraic threefolds. **94f:14013**
Seminar:
Algebraic Geometry ★ Flips and abundance for algebraic threefolds. **94f:14013**

14M12 Determinantal varieties [see also 13C40]

Ein, Lawrence On the cohomology of projectively Cohen-Macaulay determinantal subvarieties of $\mathbf{P}^n$. **94f:14048**
Rao, Aroor Prabhakar Conormal bundles of determinantal curves. (English summary) **94k:14042**
Weyman, Jerzy Calculating discriminants by higher direct images. **94g:14026**

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Barile, Margherita The Cohen-Macaulayness and the a-invariant of an algebra with straightening laws on a doset. **94m:13018**
Buchsbaum, David A. Some remarks on determinantal ideals and representation theory. (English summary) **94c:13010**
Herzog, Jürgen (*with* Ngô Viêt Trung) Gröbner bases and multiplicity of determinantal and Pfaffian ideals. **94a:13012**
Li, Yingchen A singularity theorem in Brill-Noether theory of higher rank. **94h:14011**
Ngô Viêt Trung *see* **Herzog, Jürgen, 94a:13012**
Salmon, P. (*with* Zaare-Nahandi, R.) Algebraic properties of some analytically irreducible triple points. (English summary) **94f:14023**
Sturmfels, Bernd (*with* Zelevinsky, A. V.) Maximal minors and their leading terms. **94h:52020**
Weyman, Jerzy On the Hilbert functions of multiplicity ideals. **94i:13003a**
— Gordan ideals in the theory of binary forms. **94i:13003b**
Zaare-Nahandi, R. *see* **Salmon, P., 94f:14023**
Zelevinsky, A. V. *see* **Sturmfels, Bernd, 94h:52020**

14M15 Grassmannians, Schubert varieties, flag manifolds [see also 32M10, 51M35]

Arrondo, Enrique (*with* Gross, Mark) On smooth surfaces in $\mathrm{Gr}(1,\mathbf{P}^3)$ with a fundamental curve. **94h:14049**
Boudhraa, Zineddine Resolution of singularities of Schubert cycles. (English summary) **94k:14043**
Broer, Bram Line bundles on the cotangent bundle of the flag variety. **94g:14027**
Carrell, James B. Bruhat cells in the nilpotent variety and the intersection rings of Schubert varieties. **94e:14067**
Dąbrowski, Romuald A simple proof of a necessary and sufficient condition for the existence of nontrivial global sections of a line bundle on a Schubert variety. (English summary) **94a:14053**
Gaeta, Federico An identification between invariants of h hyperplanes in $\mathbf{P}_n$ and h-hedral complexes in $G(\mathbf{P}_n \hookrightarrow \mathbf{P}(\mathbf{C}^h))$. (English summary) **94i:14054**
Gross, Mark Surfaces of degree 10 in the Grassmannian of lines in 3-space. **94a:14054**
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— *see also* **Arrondo, Enrique, 94h:14049**
Kim, Dae San (*with* Kim, Myung-Hwan[1]; Kim, Jae Moon) Action on flag varieties: 2-dimensional case. (English summary) **94b:14048**
Kim, Jae Moon *see* **Kim, Dae San; et al., 94b:14048**
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Kumar, Shrawan Proof of Wahl's conjecture on surjectivity of the Gaussian map for flag varieties. **94b:14049**
Pragacz, Piotr (*with* Ratajski, Jan) A Pieri-type formula for $\mathrm{Sp}(2m)/P$ and $\mathrm{SO}(2m+1)/P$. (English and French summaries) **94i:14055**
— (*with* Ratajski, Jan) Pieri type formula for isotropic Grassmannians; the operator approach. (English summary) **94d:14046**
Ratajski, Jan *see* **Pragacz, Piotr, 94d:14046** *and* **94i:14055**

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Akin, Kaan (*with* Buchsbaum, David A.) A note on the Poincaré resolution of the coordinate ring of the Grassmannian. **94e:13023**

Allen, Edward E. A conjecture of Procesi and a new basis for the decomposition of the graded left regular representation of S_n. (English summary) **94j:20008**
Bien, Frédéric Orbits, multiplicities and differential operators. **94g:22027**
Billey, Sara C. (*with* Jockusch, William; Stanley, Richard P.) Some combinatorial properties of Schubert polynomials. (English summary) **94m:05197**
Bochnak, J. (*with* Kucharz, W.) The homotopy groups of some spaces of real algebraic morphisms. **94d:55029**
Bolondi, Giorgio (*with* Migliore, Juan Carlos) The Lazarsfeld-Rao property on an arithmetically Gorenstein variety. (English summary) **94a:13008**
Buchsbaum, David A. *see* **Akin, Kaan, 94e:13023**
Cohen, Arjeh M. (*with* Cushman, Richard H.) Gröbner bases and standard monomial theory. (English summary) **94g:13017**
Crapo, Henry On the Anick-Rota resolution of the bracket ring. **94a:13009**
Cushman, Richard H. *see* **Cohen, Arjeh M., 94g:13017**
Gel'fand, I. M. (*with* Kapranov, M. M.; Zelevinsky, A. V.) Hyperdeterminants. **94g:14023**
— (*with* Graev, M. I.; Retakh, V. S.) Reduction formulas for hypergeometric functions associated with the Grassmannian $G_{k,n}$ and description of these functions on strata of small codimension in $G_{k,n}$. (English summary) **94k:33030**
Graev, M. I. *see* **Gel'fand, I. M.; et al., 94k:33030**
Huneke, Craig L. (*with* Lakshmibai, V.) Degeneracy of Schubert varieties. (English summary) **94f:20083**
Jockusch, William *see* **Billey, Sara C.; et al., 94m:05197**
Kapranov, M. M. *see* **Gel'fand, I. M.; et al., 94g:14023**
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Lakshmibai, V. *see* **Huneke, Craig L., 94f:20083**
Littelmann, Peter Good filtrations and decomposition rules for representations with standard monomial theory. **94a:20072**
Migliore, Juan Carlos *see* **Bolondi, Giorgio, 94a:13008**
Mulase, Motohico Normalization of the Krichever data. **94a:14026**
Retakh, V. S. *see* **Gel'fand, I. M.; et al., 94k:33030**
Skorobogatov, A. N. Linear codes, strata of Grassmannians, and the problems of Segre. **94a:51019**
Stanley, Richard P. *see* **Billey, Sara C.; et al., 94m:05197**
Sturmfels, Bernd (*with* Zelevinsky, A. V.) Maximal minors and their leading terms. **94h:52020**
Tesser, Steven Barry On orbits of the stabilizer of a Schubert variety. (English summary) **94h:20053**
Wagner, David G. Enumeration of functions from posets to chains. (English summary) **94c:05008**
Wolf, Joseph A. Admissible representations and geometry of flag manifolds. (English summary) **94j:22015**
Zelevinsky, A. V. *see* **Gel'fand, I. M.; et al., 94g:14023** *and* **Sturmfels, Bernd, 94h:52020**

14M17 Homogeneous spaces and generalizations [see also 32M10, 53C30, 57T15]

Byrnes, Christopher I. *see* **Helmke, Uwe, 94f:14049**
Douai, Jean-Claude Espaces homogènes rationnellement triviaux et arithmétique des schémas en groupes réductifs sur les anneaux de Dedekind. (English and French summaries) [Rationally trivial homogeneous spaces and arithmetic of reductive group schemes over Dedekind rings] **94k:14044**
Helmke, Uwe (*with* Byrnes, Christopher I.) The cohomology of the moduli space of controllable linear systems. (English summary) **94f:14049**
Knop, Friedrich Über Hilberts vierzehntes Problem für Varietäten mit Kompliziertheit eins. [On Hilbert's fourteenth problem for varieties with complexity one] **94b:14050**
Lakshmibai, V. (*with* Reshetikhin, N. Yu.) Quantum flag and Schubert schemes. (English summary) **94a:14055**
Reshetikhin, N. Yu. *see* **Lakshmibai, V., 94a:14055**
Scognamillo, Renata The canonical combinatorial sheaf associated to an involution of a semisimple adjoint group. Case A_n. **94b:14051**
Snow, Dennis M. The nef value and defect of homogeneous line bundles. **94a:14056**

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Bremigan, Ralph J. Galois cohomology and real algebraic quotients. (English summary) **94h:20052**
Brion, Michel Variétés sphériques et théorie de Mori. [Spherical varieties and Mori theory] **94j:14045**
Colliot-Thélène, Jean-Louis (*with* Ojanguren, Manuel) Espaces principaux homogènes localement triviaux. [Locally trivial principal homogeneous spaces] **94a:14049**
Fukutani, Satoshi On rational points of k-forms of a homogeneous space of type A over an algebraic number field. I. **94d:11022**
Ojanguren, Manuel *see* **Colliot-Thélène, Jean-Louis, 94a:14049**
Popov, V. L. Singularities of closures of orbits. (English summary) **94m:14064**
Renner, Lex E. Towards a generalized Bruhat decomposition. **94a:14051**
Yang, Kichoon Invariant Kähler metrics and projective embeddings of the flag manifold. (English summary) **94m:53091**
Zak, F. L. ★ Tangents and secants of algebraic varieties. (English summary) **94i:14053**

14M20 Rational varieties

Items with secondary classifications in 14M20

Colliot-Thélène, Jean-Louis L'arithmétique des variétés rationnelles. (English and French summaries) [The arithmetic of rational varieties] **94i:11040**
tom Dieck, Tammo (*with* Petrie, Ted) Homology planes and algebraic curves. **94k:14038**
Petrie, Ted *see* **tom Dieck, Tammo, 94k:14038**
Prokhorov, Yu. G. Rationality constructions of some Fano fourfolds of index 2. (Russian. Russian summary) **94b:14035**
Völklein, Helmut $GL_n(q)$ as Galois group over the rationals. **94a:12007**

14M25 Toric varieties, Newton polyhedra

Batyrev, V. V. Variations of the mixed Hodge structure of affine hypersurfaces in algebraic tori. **94m:14067**
Eikelberg, Markus Picard groups of compact toric varieties and combinatorial classes of fans. (English summary) **94b:14052**
Ewald, Günter Grenzfragen von kombinatorischer Konvexgeometrie, algebraischer Geometrie und Topologie. [Border problems of combinatorial convex geometry, algebraic geometry and topology] (*see* **94f:00023**)
— Algebraic geometry and convexity. **94h:14050**
Fulton, William ★ Introduction to toric varieties. **94g:14028**
Gel'fand, I. M. (*with* Kapranov, M. M.; Zelevinsky, A. V.) Hypergeometric functions, toric varieties and Newton polyhedra. **94b:14053**
Kapranov, M. M. *see* **Gel'fand, I. M.; et al., 94b:14053**
Khovanskiĭ, A. G. The Newton polytope, the Hilbert polynomial and sums of finite sets. (Russian. Russian summary) **94e:14068**
— *see also* **Pukhlikov, A. V., 94c:14044**
Koelman, Robert Jan A criterion for the ideal of a projectively embedded toric surface to be generated by quadrics. (English summary) **94h:14051**
— Generators for the ideal of a projectively embedded toric surface. (English summary) **94e:14069**
Morelli, Robert The K-theory of a toric variety. **94j:14047**
— Pick's theorem and the Todd class of a toric variety. **94j:14048**
Neeb, Karl-Hermann Toric varieties and algebraic monoids. **94b:14054**
Oda, Tadao The algebraic de Rham theorem for toric varieties. (English summary) **94h:14052**
Pedersen, Paul (*with* Sturmfels, Bernd) Product formulas for resultants and Chow forms. **94m:14068**
Pommersheim, James E. Toric varieties, lattice points and Dedekind sums. **94c:14043**
Procesi, C. The toric variety associated to Weyl chambers. (English summary) **94k:14045**
Pukhlikov, A. V. (*with* Khovanskiĭ, A. G.) The Riemann-Roch theorem for integrals and sums of quasipolynomials on virtual polytopes. (Russian. Russian summary) **94c:14044**
Sturmfels, Bernd *see* **Pedersen, Paul, 94m:14068**
Włodarczyk, Jarosław Embeddings in toric varieties and prevarieties. **94e:14070**
Zelevinsky, A. V. *see* **Gel'fand, I. M.; et al., 94b:14053**

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Aomoto, Kazuhiko (*with* Kato, Yoshifumi) A q-analogue of de Rham cohomology associated with Jackson integrals. **94f:14017**
Bifet, Emili Cohomology, symmetry, and perfection. (English summary) **94d:14024**
Brion, Michel Polyèdres et réseaux. [Polyhedra and lattices] **94c:52010**
Cappell, Sylvain E. (*with* Shaneson, Julius L.) Genera of algebraic varieties and counting of lattice points. (English summary) **94f:14018**
Cools, Ronald *see* **Verschelde, Jan, 94c:68102**
Hibi, Takayuki Combinatorics of simplicial complexes and complex polyhedra. (Japanese) **94e:52012**
Hwang, Andrew D. (*with* Mabuchi, Toshiki) A conjecture on the group of biholomorphisms of a nonsingular Fano variety. **94k:14036**
Kato, Yoshifumi *see* **Aomoto, Kazuhiko, 94f:14017**
Mabuchi, Toshiki *see* **Hwang, Andrew D., 94k:14036**
Nakagawa, Yasuhiro Einstein-Kähler toric Fano fourfolds. (English summary) **94f:32059**
Pouyanne, Nicolas Une résolution en singularités toriques simpliciales des singularités-quotient de dimension trois. (English and French summaries) [A resolution by simplicial toric singularities of three-dimensional quotient singularities] **94h:14016**
Ratajski, Jan On the Betti numbers of the real part of a three-dimensional torus embedding. **94b:14015**
Shaneson, Julius L. *see* **Cappell, Sylvain E., 94f:14018**
Sturmfels, Bernd Sparse elimination theory. **94k:13035**
— (*with* Zelevinsky, A. V.) Maximal minors and their leading terms. **94h:52020**
Verschelde, Jan (*with* Cools, Ronald) Symbolic homotopy construction. (English summary) **94c:68102**
Zelevinsky, A. V. *see* **Sturmfels, Bernd, 94h:52020**

14M30 Supervarieties [see also 14A22, 32C11, 58A50]

Domínguez Pérez, J. A. (*with* Hernández Ruipérez, Daniel; Sancho de Salas, C.) The variety of positive superdivisors of a supercurve (supervortices). (English summary) **94i:14056**
Hernández Ruipérez, Daniel *see* **Domínguez Pérez, J. A.; et al., 94i:14056**
Onishchik, A. L. On the rigidity of super-Grassmannians. (English summary) **94m:14069**
Sancho de Salas, C. *see* **Domínguez Pérez, J. A.; et al., 94i:14056**

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Mulase, Motohico Geometric classification of Z_2-commutative algebras of super differential operators. **94d:58024**
Natanzon, S. M. Supercoverings, SNEC-groups and inner groups of Riemann and Klein supersurfaces. (Russian) **94a:58006**
Ninnemann, Holger Deformations of super Riemann surfaces. (English summary) **94a:32012**

14M99 None of the above, but in this section

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Cho, Koji (*with* Matsumoto, Keiji; Yoshida, Masaaki) Combinatorial structure of the configuration space of 6 points on the projective plane. **94e:14063**
Lim, Ming Huat Conditions on decomposable symmetric tensors as an algebraic variety. (English summary) **94e:15060**
Matsumoto, Keiji *see* **Cho, Koji; et al., 94e:14063**
Yoshida, Masaaki *see* **Cho, Koji; et al., 94e:14063**

14Nxx Classical methods and problems [see also 51–XX]

14N05 Projective techniques [see also 51N35]

Aluffi, Paolo (*with* Cukierman, Fernando) Multiplicities of discriminants. (English summary) **94d:14047**
Ballico, Edoardo Zero-dimensional projective schemes and linear general position in positive characteristic. **94h:14053**
— On varieties as hyperplane sections. **94d:14048**
Berry, T. G. Points at rational distance from the vertices of a triangle. **94e:14071**
Coelho, Christopher (*with* Heller, Aaron; Mundy, Joseph L.; Forsyth, David A.; Zisserman, Andrew) An experimental evaluation of projective invariants. (English summary) (*see* **94d:68114**)
Cukierman, Fernando *see* **Aluffi, Paolo, 94d:14047**
Dolgachev, Igor (*with* Kanev, Vasil) Polar covariants of plane cubics and quartics. **94g:14029**
Forsyth, David A. *see* **Coelho, Christopher; et al., (94d:68114)**
Gros, Patrick *see* **Mundy, Joseph L.; et al., (94d:68114)**
Heller, Aaron *see* **Coelho, Christopher; et al., (94d:68114)**
Kanev, Vasil *see* **Dolgachev, Igor, 94g:14029**
Kapur, Deepak *see* **Mundy, Joseph L.; et al., (94d:68114)**
Maybank, Stephen J. The projection of two noncoplanar conics. (English summary) (*see* **94d:68114**)
— *see also* **Mundy, Joseph L.; et al., (94d:68114)**
Mundy, Joseph L. (*with* Kapur, Deepak; Maybank, Stephen J.; Gros, Patrick; Quan, Long) Geometric interpretation of joint conic invariants. (English summary) (*see* **94d:68114**)
— *see also* **Coelho, Christopher; et al., (94d:68114)**
Ohno, Masahiro An affirmative answer to a question of Ciliberto. (English summary) **94i:14057**
Parameswaran, A. J. (*with* Srinivas, V.) A variant of Noether normalisation. (English summary) **94d:14049**
Quan, Long *see* **Mundy, Joseph L.; et al., (94d:68114)**
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Weyman, Jerzy (*with* Zelevinsky, A. V.) Multiplicative properties of projectively dual varieties. (English summary) **94m:14070**
Zelevinsky, A. V. *see* **Weyman, Jerzy, 94m:14070**
Zisserman, Andrew *see* **Coelho, Christopher; et al., (94d:68114)**

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Andreatta, M. (*with* Ballico, Edoardo) On the projective normality of the adjunction bundles: the singular case. (English summary) **94e:14023**
Ballico, Edoardo On the general osculating flag of a projection of a curve in char. p. (English summary) **94i:14006**
— Curves whose hyperplane section is a given scheme. **94a:14028**
— *see also* **Andreatta, M., 94e:14023**
Diaz, Steven (*with* Geramita, Anthony V.) Points in projective space in very uniform position. (English summary) **94i:14003**
Frigerio, Emma (*with* Turrini, Cristina) On some line congruences in $\mathbf{P}^4$. (English summary) **94d:14039**
Gel'fand, I. M. (*with* Kapranov, M. M.) On the dimension and degree of the projective dual variety: a q-analog of the Katz-Kleiman formula. **94m:14071**
Geramita, Anthony V. *see* **Diaz, Steven, 94i:14003**
Gross, Mark Surfaces of degree 10 in the Grassmannian of lines in 3-space. **94a:14054**
Kaji, Hajime On the space curves with the same dual variety. **94a:14030**
— On the space curves with the same image under the Gauss maps. (English summary) **94h:14030**
Kapranov, M. M. *see* **Gel'fand, I. M., 94m:14071**
Lütkebohmert, Werner On compactification of schemes. **94h:14004**
Mezzetti, Emilia (*with* Raspanti, I.) A Laudal-type theorem for surfaces in $\mathbf{P}^4$. (English summary) **94b:14037**
Mukai, Shigeru Fano 3-folds. (English summary) **94a:14042**
Ranestad, Kristian On smooth plane curve fibrations in $\mathbf{P}^4$. **94f:14030**
Raspanti, I. *see* **Mezzetti, Emilia, 94b:14037**
Turrini, Cristina *see* **Frigerio, Emma, 94d:14039**
Zak, F. L. Some properties of dual varieties and their applications in projective geometry. **94a:14041**
— ★ Tangents and secants of algebraic varieties. (English summary) **94i:14053**
— Varieties of codegree three in projective space. **94f:14037**

14N10 Enumerative problems (combinatorial problems)

Barth, Wolf Paul (*with* Michel, J.) Modular curves and Poncelet polygons. **94c:14045**
Ellingsrud, Geir (*with* Strømme, Stein Arild) The number of twisted cubic curves on the general quintic threefold (preliminary version). (English summary) **94d:14050**
Gel'fand, I. M. (*with* Kapranov, M. M.) On the dimension and degree of the projective dual variety: a q-analog of the Katz-Kleiman formula. **94m:14071**
Kapranov, M. M. *see* **Gel'fand, I. M., 94m:14071**
Michel, J. *see* **Barth, Wolf Paul, 94c:14045**
Strømme, Stein Arild *see* **Ellingsrud, Geir, 94d:14050**

Items with secondary classifications in 14N10

Aluffi, Paolo (*with* Faber, Carel) Linear orbits of smooth plane curves. **94e:14032**
Aspinwall, Paul S. (*with* Morrison, David R.) Topological field theory and rational curves. (English summary) **94h:32033**
Bershadsky, M. (*with* Cecotti, Sergio; Ooguri, Hirosi; Vafa, Cumrun) Holomorphic anomalies in topological field theories. (English summary) **94j:81254**
Cecotti, Sergio *see* **Bershadsky, M.; et al., 94j:81254**
Faber, Carel *see* **Aluffi, Paolo, 94e:14032**
Katz, Sheldon H. Rational curves on Calabi-Yau threefolds. (*see* **94b:32001**)
Kleiman, Steven (*with* Lipman, Joseph; Ulrich, Bernd) The source double-point cycle of a finite map of codimension one. (English summary) **94a:14003**
Lipman, Joseph *see* **Kleiman, Steven; et al., 94a:14003**
Morrison, David R. Picard-Fuchs equations and mirror maps for hypersurfaces. (English summary) **94b:32035**
— *see also* **Aspinwall, Paul S., 94h:32033**
Ooguri, Hirosi *see* **Bershadsky, M.; et al., 94j:81254**
van Straten, Duco A quintic hypersurface in $\mathbf{P}^4$ with 130 nodes. **94h:14044**
Turrini, Cristina (*with* Verderio, E.) Projective surfaces of small class. (English summary) **94e:14049**
Ulrich, Bernd *see* **Kleiman, Steven; et al., 94a:14003**
Vafa, Cumrun *see* **Bershadsky, M.; et al., 94j:81254**
Verderio, E. *see* **Turrini, Cristina, 94e:14049**
Weyman, Jerzy (*with* Zelevinsky, A. V.) Multiplicative properties of projectively dual varieties. (English summary) **94m:14070**
Zelevinsky, A. V. *see* **Weyman, Jerzy, 94m:14070**

14N99 None of the above, but in this section

Items with secondary classifications in 14N99

Gaeta, Federico An identification between invariants of h hyperplanes in $\mathbf{P}_n$ and h-hedral complexes in $G(\mathbf{P}_n \hookrightarrow \mathbf{P}(\mathbf{C}^h))$. (English summary) **94i:14054**
Jakob, B. Moduli of Poncelet polygons. **94c:14010**

14Pxx Real algebraic and real analytic geometry

(Coste, Michel) *see* **Real algebraic geometry, 94b:14055**
(Mahé, L.) *see* **Real algebraic geometry, 94b:14055**
(Roy, Marie-Françoise) *see* **Real algebraic geometry, 94b:14055**

Items listed otherwise than by author

Conference:
Real Algebraic Geometry ★ Real algebraic geometry. **94b:14055**
Lecture Notes in Mathematics ★ Real algebraic geometry. **94b:14055**
Real algebraic geometry ★ Real algebraic geometry. **94b:14055**
Rennes ★ Real algebraic geometry. **94b:14055**

Items with secondary classifications in 14Pxx

(Jacob, William B.) *see* **Recent advances in real algebraic geometry and quadratic forms, 94h:14003**
(Lam, Tsit Yuen) *see* **Recent advances in real algebraic geometry and quadratic forms, 94h:14003**
(Robson, Robert O.) *see* **Recent advances in real algebraic geometry and quadratic forms, 94h:14003**

Items listed otherwise than by author

Recent advances in real algebraic geometry and quadratic forms ★ Recent advances in real algebraic geometry and quadratic forms. **94h:14003**
Session:
Real Algebraic Geometry and Quadratic Forms ★ Recent advances in real algebraic geometry and quadratic forms. **94h:14003**
Special Year:
Real Algebraic Geometry and Quadratic Forms ★ Recent advances in real algebraic geometry and quadratic forms. **94h:14003**

14P05 Real algebraic sets [see also 12Dxx]

Akbulut, Selman (*with* King, Henry Churchill) Constructing strange real algebraic sets. **94c:14046**
Bochnak, J. (*with* Kucharz, W.) Elliptic curves and real algebraic morphisms. **94e:14072**
Coste, Michel Épaississement d'une hypersurface algébrique réele. [Thickening of a real algebraic hypersurface] **94b:14056**
Itenberg, I. V. Contre-examples à la conjecture de Ragsdale. (English and French summaries) [Counterexamples to Ragsdale's conjecture] **94f:14050**
Kawakami, Tomohiro Any real algebraic G set is imbeddable into some representation of G. (English summary) **94d:14051**
King, Henry Churchill *see* **Akbulut, Selman, 94c:14046**
Kucharz, W. *see* **Bochnak, J., 94e:14072**
Rusek, Kamil Algebraic transformations over real closed fields. (English summary) **94h:14054**
Tognoli, Alberto On the surjectivity of injective real algebraic maps. (Italian summary) **94k:14046**
Wongkew, Richard Volumes of tubular neighbourhoods of real algebraic varieties. (English summary) **94e:14073**

Items with secondary classifications in 14P05

Akbulut, Selman Lectures on real algebraic spaces. **94b:57001**
Becker, Eberhard (*with* Neuhaus, R.) Computation of real radicals of polynomial ideals. (English summary) **94g:12001**
Bürgisser, Peter (*with* Lickteig, Thomas) Verification complexity of linear prime ideals. (English summary) **94a:68048**
Degtyarëv, Aleksandr Igor'evich Stiefel orientations on a real algebraic variety. (English summary) **94g:57029**
Françoise, J.-P. (*with* Ronga, F.) The decidability of real algebraic sets by the index formula. (English summary) **94d:14055**
Lickteig, Thomas *see* **Bürgisser, Peter, 94a:68048**
Neuhaus, R. *see* **Becker, Eberhard, 94g:12001**
Pfister, Albrecht A new proof of the homogeneous Nullstellensatz for p-fields, and applications to topology. **94m:13027**

Polotovskiĭ, G. M. On the classification of decomposing plane algebraic curves. **94d:14054**
Risler, Jean-Jacques Construction d'hypersurfaces réelles (d'après Viro). (French summary) [Construction of real hypersurfaces (after Viro)] **94m:14074**
Ronga, F. *see* **Françoise, J.-P., 94d:14055**
Silhol, Robert Moduli problems in real algebraic geometry. **94h:14025**
Vinnikov, Victor Selfadjoint determinantal representations of real plane curves. **94e:14038**

14P10 Semialgebraic sets and related spaces

Andradas, Carlos (*with* Ruiz, Jesús M.) More on basic semialgebraic sets. **94g:14030**
Bröcker, Ludwig Families of semialgebraic sets and limits. **94i:14058**
Coste, Michel (*with* Reguiat, Miloud) Trivialités en famille. [Family trivialities] **94h:14055**
Delfs, Hans ★ Homology of locally semialgebraic spaces. **94c:14047**
Gournay, L. (*with* Risler, Jean-Jacques) Construction of roadmaps in semi-algebraic sets. (English summary) **94j:14049**
Khimshiashvili, G. N. On the cardinality of a semi-algebraic set. (English and Georgian summaries) **94m:14072**
Lombardi, Henri Une borne sur les degrés pour le théorème des zéros réel effectif. (English and French summaries) [Bound on the degrees for the effective real Nullstellensatz] **94j:14050**
Marshall, Murray A. (*with* Walter, L.) Minimal generation of basic semi-algebraic sets over an arbitrary ordered field. **94d:14052**
— Separating families for semi-algebraic sets. (English summary) **94c:14048**
Reguiat, Miloud *see* **Coste, Michel, 94h:14055**
Risler, Jean-Jacques *see* **Gournay, L., 94j:14049**
Ruiz, Jesús M. *see* **Andradas, Carlos, 94g:14030**
Solernó, Pablo Effective Lojasiewicz inequalities in semialgebraic geometry. (English summary) **94i:14059**
Vorob'ev, N. N., Jr. Effective stratification of regular real algebraic varieties. (English summary) **94d:14053**
Walter, L. *see* **Marshall, Murray A., 94d:14052**
Zeng, Guang Xing Dimensions of semi-algebraic sets and a theorem on real linear mappings. (Chinese. Chinese summary) **94i:14060**

Items with secondary classifications in 14P10

Agarwal, Pankaj K. (*with* Matoušek, Jiří) On range searching with semialgebraic sets. (English summary) **94i:68070**
Briskin, M. (*with* Yomdin, Y.) Semialgebraic geometry of polynomial control problems. (English summary) **94f:93030**
Canny, John F. Computing roadmaps of general semi-algebraic sets. (English summary) **94e:68084**
— Computing roadmaps of general semi-algebraic sets. (English summary) **94i:68108**
Cellini, Paola (*with* Gianni, Patrizia; Traverso, Carlo) Algorithms for the shape of semialgebraic sets. A new approach. (*see* **94b:68002**)
Coste, Michel (*with* Shiota, Masahiro) Thom's first isotopy lemma: a semialgebraic version, with uniform bounds. **94k:14047**
Delzell, Charles N. (*with* González-Vega, Laureano; Lombardi, Henri) A continuous and rational solution to Hilbert's 17th problem and several cases of the Positivstellensatz. (English summary) **94f:12001**
— Continuous, piecewise-polynomial functions which solve Hilbert's 17th problem. **94d:12001**
Gianni, Patrizia *see* **Cellini, Paola; et al., (94b:68002)**
González-Vega, Laureano *see* **Delzell, Charles N.; et al., 94f:12001**
Grigor'ev, D. Yu. (*with* Karpiński, Marek; Singer, Michael F.) Computational complexity of sparse real algebraic function interpolation. (English summary) **94g:68055**
Karpiński, Marek *see* **Grigor'ev, D. Yu.; et al., 94g:68055**
Lombardi, Henri *see* **Delzell, Charles N.; et al., 94f:12001**
Marker, David (*with* Peterzil, Ya'acov; Pillay, Anand) Additive reducts of real closed fields. **94a:03055**
Matoušek, Jiří *see* **Agarwal, Pankaj K., 94i:68070**
Mishra, Bhubaneswar ★ Algorithmic algebra. **94j:68127**
Mostowski, Tadeusz (*with* Rannou, E.) Complexity of the computation of the canonical Whitney stratification of an algebraic set in $\mathbf{C}^n$. (English summary) **94e:14078**
Peterzil, Ya'acov Reducts of some structures over the reals. (English summary) **94k:03040**
— *see also* **Marker, David; et al., 94a:03055**
Pillay, Anand *see* **Marker, David; et al., 94a:03055**
Rannou, E. *see* **Mostowski, Tadeusz, 94e:14078**
Shiota, Masahiro *see* **Coste, Michel, 94k:14047**
Singer, Michael F. *see* **Grigor'ev, D. Yu.; et al., 94g:68055**
Traverso, Carlo *see* **Cellini, Paola; et al., (94b:68002)**
Yomdin, Y. *see* **Briskin, M., 94f:93030**

14P15 Real analytic and semianalytic sets [see also 32B20, 32C05]

Items with secondary classifications in 14P15

Acquistapace, F. (*with* Broglia, F.) Correction to the paper: "Signatures and flatness" [J. Reine Angew. Math. **425** (1992), 61–70; MR 93h:32011]. **94h:32008**
Broglia, F. *see* **Acquistapace, F., 94h:32008**
Lipshitz, L. Rigid subanalytic sets. **94d:32047**
Robinson, Zachary Smooth points of p-adic subanalytic sets. (English summary) **94h:32055**

14P20 Nash functions and manifolds [see also 32C07, 58A07]

Coste, Michel (*with* Shiota, Masahiro) Thom's first isotopy lemma: a semialgebraic version, with uniform bounds. **94k:14047**
Gamboa, J. M. (*with* Ueno, C.) Proper polynomial maps: the real case. **94g:14031**
Madden, James J. Correction to: "One-dimensional Nash groups" [Pacific J. Math. **154** (1992), no. 2, 331–344; MR 93d:14087] by Madden and C. M. Stanton. **94h:14056**
Ruiz, Jesús M. (*with* Shiota, Masahiro) On global Nash functions. (English summary) **94m:14073**
Shiota, Masahiro *see* **Coste, Michel, 94k:14047** *and* **Ruiz, Jesús M., 94m:14073**
(Stanton, Charles M.) *see* **Madden, James J., 94h:14056**
Ueno, C. *see* **Gamboa, J. M., 94g:14031**

Items with secondary classifications in 14P20

Tognoli, Alberto Approximation algébrique des sous-variétés différentiables. [Algebraic approximation of differentiable subvarieties] **94h:14057**

14P25 Topology of real algebraic varieties

Itenberg, I. V. Rigid isotopic classification of the simplest degenerations of M-curves of degree 6. (Russian. English and Russian summaries) **94a:14057**
— Curves of degree 6 with one nondegenerate double point and groups of monodromy of nonsingular curves. (English summary) **94e:14074**
Korchagin, A. B. Construction of new M-curves of 9th degree. **94g:14032**
Łęcki, A. (*with* Szafraniec, Z.) Applications of the Eisenbud-Levine theorem to real algebraic geometry. **94e:14075**
Mikhalkin, G. B. Extensions of Rokhlin congruence for curves on surfaces. (English summary) **94e:14076**
Parimala, R. Algebraic geometry methods in real algebraic geometry. **94i:14061**
Pollack, Richard (*with* Roy, Marie-Françoise) On the number of cells defined by a set of polynomials. (English and French summaries) **94b:14057**
Polotovskiĭ, G. M. On the classification of decomposing plane algebraic curves. **94d:14054**
Risler, Jean-Jacques Construction d'hypersurfaces réelles (d'après Viro). (French summary) [Construction of real hypersurfaces (after Viro)] **94m:14074**
Roy, Marie-Françoise *see* **Pollack, Richard, 94b:14057**
Shustin, E. I. Dynamical systems in $\mathbf{C}^2$ and real curves of degree 8. (Russian. Russian summary) **94j:14051**
— Topology of real plane algebraic curves. **94g:14033**
Szafraniec, Z. *see* **Łęcki, A., 94e:14075**
Tognoli, Alberto Approximation algébrique des sous-variétés différentiables. [Algebraic approximation of differentiable subvarieties] **94h:14057**

Items with secondary classifications in 14P25

Akbulut, Selman (*with* King, Henry Churchill) ★ Topology of real algebraic sets. **94m:57001**
— Lectures on real algebraic spaces. **94b:57001**
— (*with* King, Henry Churchill) Transcendental submanifolds of $\mathbf{R}^n$. (English summary) **94j:57032**
Audin, Michèle (*with* Silhol, Robert) Variétés abéliennes réelles et toupie de Kowalevski. [Real abelian varieties and Kovalevskaya's top] **94h:58082**
Benedetti, Riccardo (*with* Marin, Alexis) Déchirures de variétés de dimension trois et la conjecture de Nash de rationalité en dimension trois. [Tears of threefolds and the Nash rationality conjecture in dimension three] **94d:57036**
Bochnak, J. (*with* Kucharz, W.) The homotopy groups of some spaces of real algebraic morphisms. **94d:55029**
Coste, Michel (*with* Reguiat, Miloud) Trivialités en famille. [Family trivialities] **94h:14055**
— Épaississement d'une hypersurface algébrique réele. [Thickening of a real algebraic hypersurface] **94b:14056**
Karpushkin, V. N. An estimate for the Betti numbers of the level surface of a harmonic polynomial. (Russian) **94a:57042**
King, Henry Churchill *see* **Akbulut, Selman, 94j:57032** *and* **94m:57001**
Kucharz, W. *see* **Bochnak, J., 94d:55029**
Marin, Alexis *see* **Benedetti, Riccardo, 94d:57036**
Nikulin, Vyacheslav Valentinovich (*with* Sujatha, R.) On Brauer groups of real Enriques surfaces. **94m:14048**
Pedrini, C. (*with* Weibel, Charles) Invariants of real curves. (English summary) **94f:14016**
Reguiat, Miloud *see* **Coste, Michel, 94h:14055**
Silhol, Robert *see* **Audin, Michèle, 94h:58082**
Sujatha, R. *see* **Nikulin, Vyacheslav Valentinovich, 94m:14048**
Weibel, Charles *see* **Pedrini, C., 94f:14016**

14P99 None of the above, but in this section

Andradas, Carlos (*with* Ruiz, Jesús M.) On local uniformization of orderings. **94k:14048**
Bochnak, J. (*with* Kucharz, W.) Vector bundles on a product of real cubic curves. (English summary) **94e:14077**
Craven, Thomas C. Orderings for noncommutative rings. **94k:14049**
González-Vega, Laureano (*with* Lombardi, Henri) A real Nullstellensatz and Positivstellensatz for the semipolynomials over an ordered field. **94j:14052**
Kucharz, W. *see* **Bochnak, J., 94e:14077**
Lombardi, Henri *see* **González-Vega, Laureano, 94j:14052**
Ruiz, Jesús M. *see* **Andradas, Carlos, 94k:14048**

Items with secondary classifications in 14P99

Akbulut, Selman On algebraic structures of manifolds. **94m:57050**
Ballico, Edoardo On the field of definition of vector bundles on real varieties. (English summary) **94d:14040**
Borobia, Alberto Mirror property for nonsingular mixed configurations of one line and k points in $\mathbf{R}^3$. (English summary) **94c:51006**
Castilla, Ana Sums of $2n$th powers of meromorphic functions with compact zero set. **94c:32016**
Khimshiashvili, G. N. On the number of zeroes of a real polynomial endomorphism. (Russian and Georgian summaries) **94j:12002**
Ruiz, Jesús M. ★ The basic theory of power series. (English summary) **94i:13012**

Schmid, Joachim On totally positive units of real holomorphy rings. (English summary) **94m:12003**

14Qxx Computational aspects in algebraic geometry [see also 12–04, 68Q40]

Items with secondary classifications in 14Qxx

(Eisenbud, David) *see* **Computational algebraic geometry and commutative algebra, 94f:13002**
(Robbiano, Lorenzo) *see* **Computational algebraic geometry and commutative algebra, 94f:13002**

Items listed otherwise than by author

Computational algebraic geometry and commutative algebra ★ Computational algebraic geometry and commutative algebra. **94f:13002**
Conference:
Computational Algebraic Geometry and Commutative Algebra ★ Computational algebraic geometry and commutative algebra. **94f:13002**
Cortona ★ Computational algebraic geometry and commutative algebra. **94f:13002**
Symposia Mathematica ★ Computational algebraic geometry and commutative algebra. **94f:13002**

14Q05 Curves

Items with secondary classifications in 14Q05

Casas-Alvero, E. Singularities of polar curves. **94m:14031**
Gastinger, W. (*with* Kunz, Ernst; Waldi, Rolf) Relation matrices of monomial curves. **94e:14039**
Kunz, Ernst *see* **Gastinger, W.; et al., 94e:14039**
Mikhalkin, G. B. Extensions of Rokhlin congruence for curves on surfaces. (English summary) **94e:14076**
Reichstein, Boris (*with* Reichstein, Zinovy) Surfaces parameterizing Waring presentations of smooth plane cubics. **94b:14022**
Reichstein, Zinovy *see* **Reichstein, Boris, 94b:14022**
Schicho, Josef On the choice of pencils in the parametrization of curves. (English summary) **94b:68066**
Waldi, Rolf *see* **Gastinger, W.; et al., 94e:14039**
Wall, C. T. C. Root system, subsystems and singularities. **94a:14001**

14Q10 Surfaces, hypersurfaces

Ahara, Kazushi On the topology of Fermat type surface of degree 5 and the numerical analysis of algebraic curves. **94k:14050**
Pedersen, Paul (*with* Roy, Marie-Françoise; Szpirglas, A.) Counting real zeros in the multivariate case. (English summary) **94m:14075**
Roy, Marie-Françoise *see* **Pedersen, Paul; et al., 94m:14075**
Szpirglas, A. *see* **Pedersen, Paul; et al., 94m:14075**

Items with secondary classifications in 14Q10

Li, Wei[1] (*with* Yu, Jie Tai) Computing minimal polynomials and the degree of unfaithfulness. (English summary) **94h:13020**
Wall, C. T. C. Root system, subsystems and singularities. **94a:14001**
Yu, Jie Tai *see* **Li, Wei[1], 94h:13020**

14Q15 Higher-dimensional varieties

Françoise, J.-P. (*with* Ronga, F.) The decidability of real algebraic sets by the index formula. (English summary) **94d:14055**
Mostowski, Tadeusz (*with* Rannou, E.) Complexity of the computation of the canonical Whitney stratification of an algebraic set in $\mathbf{C}^n$. (English summary) **94e:14078**
— (*with* Rannou, E.) Complexité de la construction des strates à multiplicité constante d'un ensemble algébrique de $\mathbf{C}^n$. (French summary) [Complexity of the construction of the strata of constant multiplicity of an algebraic set in $\mathbf{C}^n$] **94i:14062**
Rannou, E. *see* **Mostowski, Tadeusz, 94e:14078** *and* **94i:14062**
Ronga, F. *see* **Françoise, J.-P., 94d:14055**

Items with secondary classifications in 14Q15

Kalkbrener, Michael A generalized Euclidean algorithm for computing triangular representations of algebraic varieties. (English summary) **94e:13053**
Pedersen, Paul Multivariate Sturm theory. **94e:68091**

14Q20 Effectivity

Eisenbud, David Open problems in computational algebraic geometry. (English summary) **94g:14034**
Elkadi, M. Bornes pour les degrés et les hauteurs dans le problème de division. (English summary) [Bounds for degrees and heights in the division problem] **94i:14063**
Lazard, D. Systems of algebraic equations (algorithms and complexity). (English summary) **94m:14076**
Wang, Dong Ming Irreducible decomposition of algebraic varieties via characteristic sets and Gröbner bases. (English summary) **94a:14058**

Items with secondary classifications in 14Q20

Dubé, Thomas W. A combinatorial proof of the effective Nullstellensatz. (English summary) **94j:13022**
González-Vega, Laureano (*with* Lombardi, Henri) A real Nullstellensatz and Positivstellensatz for the semipolynomials over an ordered field. **94j:14052**
Lombardi, Henri *see* **González-Vega, Laureano, 94j:14052**
Smietanski, F. A parametrized Nullstellensatz. **94i:13017**
Solernó, Pablo Effective Łojasiewicz inequalities in semialgebraic geometry. (English summary) **94i:14059**

14Q99 None of the above, but in this section

Barvinok, A. I. Feasibility testing for systems of real quadratic equations. (English summary) **94f:14051**

Items with secondary classifications in 14Q99

Gournay, L. (*with* Risler, Jean-Jacques) Construction of roadmaps in semi-algebraic sets. (English summary) **94j:14049**
Risler, Jean-Jacques *see* **Gournay, L., 94j:14049**
Wu, Wen Jun A survey of developments of mathematics mechanization in China. (English summary) **94g:03027**

15–XX Linear and multilinear algebra; matrix theory (finite and infinite)

15–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 15–00

Items listed otherwise than by author

Index:
Linear Algebra Appl. 20 year index: Volumes 101–200.

15–01 Instructional exposition (textbooks, tutorial papers, etc.)

Tran Van Hiep ★ Algèbre. (French. French summary) [Algebra]
Valenza, Robert J. ★ Linear algebra. (English summary)

Items with secondary classifications in 15–01

Adkins, William A. (*with* Weintraub, Steven H.) ★ Algebra. **94a:00001**
(Deheuvels, Paul) *see* **Gostiaux, Bernard, 94h:00002a**
Gostiaux, Bernard ★ Cours de mathématiques spéciales. Tome 1. (French. French summary) [Course on special mathematics. Vol. 1] **94h:00002a**
Lüneburg, Heinz ★ Vorlesungen über lineare Algebra. (German. German summary) [Course on linear algebra] **94i:15001**
Moh, T. T. ★ Algebra. **94b:00006**
Spindler, Karlheinz ★ Abstract algebra with applications. Vol. I. (English summary) **94i:00002a**
Weintraub, Steven H. *see* **Adkins, William A., 94a:00001**

15–02 Research exposition (monographs, survey articles)

Lüneburg, Heinz ★ Vorlesungen über lineare Algebra. (German. German summary) [Course on linear algebra] **94i:15001**

Items with secondary classifications in 15–02

Antonov, A. G. *see* **Godunov, S. K.; et al., 94g:65001**
Godunov, S. K. (*with* Antonov, A. G.; Kirilyuk, O. P.; Kostin, V. I.) ★ Guaranteed accuracy in numerical linear algebra. **94g:65001**
Kirilyuk, O. P. *see* **Godunov, S. K.; et al., 94g:65001**
Kostin, V. I. *see* **Godunov, S. K.; et al., 94g:65001**

15–03 Historical (must also be assigned at least one classification number from Section 01)

Stewart, G. W. On the early history of the singular value decomposition. (English summary) **94f:15001**

Items with secondary classifications in 15–03

Albert, A. Adrian ★ Collected mathematical papers. Part 1. **94f:01047a**
(Block, Richard E.) *see* **Albert, A. Adrian, 94f:01047a**
Crowe, Michael J. ★ A history of vector analysis. (English summary) **94j:01003**
(Herstein, Israel N.) *see* **Albert, A. Adrian, 94f:01047a**
(Jacobson, Nathan) *see* **Albert, A. Adrian, 94f:01047a**
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15A12 Conditioning of matrices [see also 65F35]

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15A15 Determinants, permanents, other special matrix functions [see also 19B10, 19B14]

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15A18 Eigenvalues, singular values, and eigenvectors

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15A27 Commutativity

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Fan, Michael K. H. A quadratically convergent local algorithm on minimizing the largest eigenvalue of a symmetric matrix. (English summary) **94a:65020**
Foo, Y. K. (*with* Soh, Yeng Chai) Comments on: "Comments on: 'Stability analysis of a family of matrices' " [IEEE Trans. Automat. Control **37** (1992), no. 9, 1470–1472; MR 93j:93107] by J.-H. Kim and Z. Bien. (English summary) **94g:93105**
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Ingrassia, Salvatore Geometric approaches to the estimation of the spectral gap of reversible Markov chains. (English summary) **94m:60136**
(Kim, Jin-Hoon) *see* **Foo, Y. K., 94g:93105**
Li, Ren Cang Norms of certain matrices with applications to variations of the spectra of matrices and matrix pencils. (English summary) **94c:15040**
— Bounds on perturbations of generalized singular values and of associated subspaces. (English summary) **94f:15010**
Najman, Branko (*with* Ye, Qiang) A minimax characterization for eigenvalues of Hermitian pencils. II. (English summary) **94f:49047**
Rao, Vasant B. *see* **Desai, Madhav P., 94h:60096**
Sinclair, Alistair Improved bounds for mixing rates of Markov chains and multicommodity flow. (English summary) **94f:60087**
Soh, Yeng Chai *see* **Foo, Y. K., 94g:93105**
Tu, Bo Xun Inequalities for the left and right eigenvalues of quaternion matrices. (Chinese. English and Chinese summaries) **94d:15007**
Ye, Qiang *see* **Najman, Branko, 94f:49047**

15A45 Miscellaneous inequalities involving matrices

Akdeniz, Fikri *see* **Kacıranlar, Selahattin, 94b:15018**
(Baksalary, Jerzy K.) *see* **Xiao, Cheng Shan, 94b:15020**
Barrett, Wayne W. (*with* Johnson, Charles Royal; Loewy, Raphael; Shalom, Tamir) Rank incrementation via diagonal perturbations. **94i:15013**
— *see also* **Johnson, Charles Royal, 94f:15017**
Bhatia, Rajendra (*with* Davis, Chandler) More matrix forms of the arithmetic-geometric mean inequality. (English summary) **94b:15017**
Chan, Chi Fai The generalized numerical radius associated with a positive semi-definite function. (English summary) **94g:15011**
(Chen, Dao Qi) *see* **Chen, Gong Ning, 94a:15031**
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Davis, Chandler *see* **Bhatia, Rajendra, 94b:15017**
Huang, Li Ping[3] Inequalities for traces of products of quaternion matrices. (Chinese. English and Chinese summaries) **94m:15016**
Huang, Ting Zhu (*with* You, Zhao Yong) Estimates of lower bounds of determinants for some classes of matrices. (Chinese) **94a:15032**
Johnson, Charles Royal (*with* Barrett, Wayne W.) Determinantal inequalities for positive definite matrices. (English summary) **94f:15017**
— *see also* **Barrett, Wayne W.; et al., 94i:15013**
Kacıranlar, Selahattin (*with* Akdeniz, Fikri) Some properties of matrix partial ordering. (English summary) **94b:15018**
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Leng, Gang Song *see* **Li, Hong Xiang, 94c:15023**
Lewin, Mordechai A family of inequalities and the sparsity of imprimitive matrices. **94i:15014**
Li, Hong Xiang (*with* Leng, Gang Song) A matrix inequality with weights and its applications. (English summary) **94c:15023**
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Mathias, Roy An arithmetic-geometric-harmonic mean inequality involving Hadamard products. (English summary) **94b:15019**
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Olkin, Ingram (*with* Rachev, Svetlozar T.) Maximum submatrix traces for positive definite matrices. (English summary) **94f:15018**
(Puntanen, Simo) *see* **Xiao, Cheng Shan, 94b:15020**
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Shalom, Tamir *see* **Barrett, Wayne W.; et al., 94i:15013**
Tuzar, Antonín Remark to a problem on 0-1 matrices. **94c:15024**
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You, Zhao Yong *see* **Huang, Ting Zhu, 94a:15032**

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Ahlbrandt, Calvin D. Continued fraction representations of maximal and minimal solutions of a discrete matrix Riccati equation. (English summary) **94k:39002**
Bernstein, Dennis S. (*with* Hyland, David C.) Compartmental modeling and second-moment analysis of state space systems. (English summary) **94f:93029**
Chatterjee, Samprit (*with* Heller, Glenn) The numerical effect of measurement error in the explanatory variables on the observed least squares estimate. (English summary) **94g:62136**
Cowen, Carl C. (*with* Dritschel, Michael A.; Penney, Richard C.) Norms of Hadamard multipliers. (English summary) **94k:15015**
Dritschel, Michael A. *see* **Cowen, Carl C.; et al., 94k:15015**
Fan, Ky Some inequalities for matrices A such that $A - I$ is positive definite or an M-matrix. (English summary) **94a:15006**
ten Have, Gabriëlle Nicoline ★ Diophantine analysis of matrices. (Dutch summary) **94j:11062**
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Heyfron, Peter A generalization of Hadamard's inequality. (English summary) **94d:15004**
Hiai, Fumio (*with* Petz, Dénes) The Golden-Thompson trace inequality is complemented. (English summary) **94b:47026**
Hyland, David C. *see* **Bernstein, Dennis S., 94f:93029**
Johnson, Charles Royal (*with* Nylen, Peter M.) Unitarily invariant norm submultiplicativity. (English summary) **94b:15027**
— (*with* Nylen, Peter M.) Length bounds for singular values of sparse matrices. (English summary) **94f:15009**
Kõnig, Hermann Some remarks on the Grothendieck inequality. (English summary) **94h:46035**
Kratz, Werner A limit theorem for monotone matrix functions. (English summary) **94j:15014**
Li, Ching The maximum determinant of an $n \times n$ lower Hessenberg (0, 1) matrix. (English summary) **94b:15006**
Mathias, Roy Perturbation bounds for the polar decomposition. (English summary) **94e:15018**
— Approximation of matrix-valued functions. (English summary) **94h:65016**
Merikoski, Jorma Kaarlo (*with* Virtanen, Ari) Some further notes on the Marcus-de Oliveira determinantal conjecture. Erratum to: "Some notes on de Oliveira's determinantal conjecture" [Linear Algebraic Appl. **121** (1989), 345–352; MR 90g:15014]. (English summary) **94e:15013**
Michael, T. S. The structure matrix of the class of r-multigraphs with a prescribed degree sequence. (English summary) **94a:05143**
Mond, B. (*with* Pečarić, Josip E.) Inequalities with weights for powers of generalised inverses. (English summary) **94d:15002**
Nylen, Peter M. *see* **Johnson, Charles Royal, 94b:15027** *and* **94f:15009**
Pate, Thomas H. Immanant inequalities, induced characters, and rank two partitions. (English summary) **94k:15005**
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Rinott, Yosef (*with* Saks, Michael) Correlation inequalities and a conjecture for permanents. (English summary) **94m:60039**
Saks, Michael *see* **Rinott, Yosef, 94m:60039**
Thompson, Robert C. The eigenvalue spreads of a Hermitian matrix and its principal submatrices. (English summary) **94e:15045**
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Yu, Yi Sheng Some estimates of the upper and lower bounds of singular values of matrix products. (Chinese. Chinese summary) **94e:15023**

15A48 Positive matrices and their generalizations; cones of matrices

Amedjoe, E. O. Splitting and multisplitting of matrices. **94m:15017**
Barker, George Phillip *see* **T'an, Pi Hsin, 94c:15028**
Beasley, LeRoy B. (*with* Pullman, Norman J.) Linear operators that strongly preserve the index of imprimitivity. (English summary) **94b:15021**
Chen, Jing Tu Weakly positive definite matrices over the field of quaternions. (Chinese. English and Chinese summaries)
Cho, Han Hyuk Indices of irreducible Boolean matrices. **94k:15012**
— Prime Boolean matrices and factorizations. (English summary) **94e:15046**
Cohen, Joel E. (*with* Rothblum, Uriel G.) Nonnegative ranks, decompositions, and factorizations of nonnegative matrices. (English summary) **94i:15015**
Di Nola, Antonio (*with* Sessa, Salvatore) Determining the Schein rank of matrices over linear lattices and finite relational equations. (English summary) **94j:15015**
Feng, Ci Huang A further generalization of positive definite complex matrices. (Chinese. English and Chinese summaries)
Feng, Yu Yu *see* **Li, Ping, 94i:15016**
Gross, Orna (*with* Rothblum, Uriel G.) Approximations of the spectral radius corresponding eigenvector, and second largest modulus of an eigenvalue for square, nonnegative, irreducible matrices. (English summary) **94d:15019**
Gu, An Na Generalized positive definite matrices. (Chinese. Chinese summary)
Hartwig, Robert E. (*with* Neumann, Michael) Bounds on the exponent of primitivity which depend on the spectrum and the minimal polynomial. (English summary) **94c:15025**
Jain, Surender Kumar (*with* Snyder, L. E.) Nonnegative normal matrices. (English summary) **94c:15026**
Johnson, Charles Royal (*with* Stanford, David P.) Qualitative semipositivity. **94h:15009**
Kolesov, Yu. S. Construction of a matrix with nonnegative elements from its spectrum. (Russian) **94c:15027**
Li, Ping (*with* Feng, Yu Yu) Criteria for copositive matrices of order four. (English summary) **94i:15016**
Liu, Jian Zhou (*with* Xie, Qing Ming) The relationship between generalized positive definite matrices and stable matrices. (Chinese. Chinese summary) **94a:15033**
Mathias, Roy The singular values of the Hadamard product of a positive semidefinite and a skew-symmetric matrix. (English summary) **94a:15034**
Neumann, Michael (*with* Schneider, Hans) Principal components of minus M-matrices. (English summary) **94h:15010**

— *see also* **Hartwig, Robert E., 94c:15025**
Oshkin, I. B. *see* **Sachkov, V. N., 94j:15016**
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Qian, Ji Lin (*with* Zhuang, Li Bin) Conditions for metapositive definiteness of the mth Kronecker product of metapositive definite matrices. (Chinese. English and Chinese summaries) **94m:15018**
Rothblum, Uriel G. *see* **Gross, Orna, 94d:15019** *and* **Cohen, Joel E., 94i:15015**
Sachkov, V. N. (*with* Oshkin, I. B.) Exponents of classes of nonnegative matrices. (Russian. Russian summary) **94j:15016**
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Sessa, Salvatore *see* **Di Nola, Antonio, 94j:15015**
Shaked-Monderer, Naomi Extreme chordal doubly nonnegative matrices with given row sums. (English summary) **94b:15022**
Snyder, L. E. *see* **Jain, Surender Kumar, 94c:15026**
Stanford, David P. *see* **Johnson, Charles Royal, 94h:15009**
Sun, Qun An A discussion of some problems on positive semidefinite matrices. (Chinese. English and Chinese summaries)
T'an, Pi Hsin (*with* Barker, George Phillip) Graphs and irreducible cone preserving maps. (English summary) **94c:15028**
— (*with* Schneider, Hans) On the core of a cone-preserving map. (English summary) **94h:15011**
Wang, Tian Min *see* **Wang, Xin Min, 94d:15020**
Wang, Wei Xian Quasi-positive definiteness of the Kronecker product of quasi-positive definite matrices. (Chinese. English and Chinese summaries) **94a:15035**
Wang, Xin Min (*with* Wang, Tian Min) Two theorems for generalized diagonally dominant matrices. (English and Chinese summaries) **94d:15020**
Xie, Qing Ming *see* **Liu, Jian Zhou, 94a:15033**
Yang, Shang Jun Structure of $\mathcal{F}$ classes in the semigroup of nonnegative matrices. (English summary) **94a:15036**
Zhuang, Li Bin *see* **Qian, Ji Lin, 94m:15018**

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Bebiano, Natália *see* **Merikoski, Jorma Kaarlo; et al., 94j:15006**
Berman, Abraham Completely positive graphs. (English summary) **94e:05204**
— *see also* **Kogan, Natalia, 94b:05136**
Boyle, Mike Symbolic dynamics and matrices. **94g:58062**
Brú, Rafael (*with* Cantó, Rafael; T'an, Pi Hsin) Predecessor property, full combinatorial column rank, and the height characteristic of an M-matrix. (English summary) **94a:15016**
— (*with* Johnson, Charles Royal) Nilpotence of products of nonnegative matrices. (English summary) **94c:15014**
Brualdi, Richard A. (*with* Csima, J.) Butterfly embedding proof of a theorem of König. **94b:05035**
Cantó, Rafael *see* **Brú, Rafael; et al., 94a:15016**
Chen, Yong Yi Some algorithms for nonnegative matrices. (Chinese. English and Chinese summaries) **94d:15009**
Csima, J. *see* **Brualdi, Richard A., 94b:05035**
van den Driessche, P. *see* **Johnson, Charles Royal; et al., 94a:15028**
Eiermann, Michael J. (*with* Varga, Richard S.) Zeros and local extreme points of Faber polynomials associated with hypocycloidal domains. (English summary) **94i:30006**
Engwerda, Jacob C. (*with* Ran, André C. M.; Rijkeboer, Arie L.) Necessary and sufficient conditions for the existence of a positive definite solution of the matrix equation $X + A^*X^{-1}A = Q$. (English summary) **94j:15012**
Fritzsche, Bernd (*with* Fuchs, Stefan; Kirstein, Bernd) A Schur type matrix extension problem. V. **94k:47021**
— (*with* Fuchs, Stefan; Kirstein, Bernd) A Schur type matrix extension problem. VI. **94k:47022**
Fuchs, Stefan *see* **Fritzsche, Bernd; et al., 94k:47021** *and* **94k:47022**
Fukui, Yoshihiko *see* **Horiguchi, Tsuyoshi, 94e:82019**
Gasca, Mariano (*with* Peña, Juan Manuel) Interpolation, elimination and totally positive matrices. (Spanish. Spanish summary) **94d:65003**
— (*with* Peña, Juan Manuel) Total positivity, QR factorization, and Neville elimination. (English summary) **94j:65060**
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Helton, J. William (*with* Lam, Daniel; Woerdeman, Hugo J.) Sparsity patterns with high rank extremal positive semidefinite matrices. (English summary) **94k:05136**
Horiguchi, Tsuyoshi (*with* Fukui, Yoshihiko) An extension of Perron-Frobenius theorem for positive symmetric matrices. (English summary) **94e:82019**
Hwang, Suk Geun (*with* Kim, Si Joo) On convertible nonnegative matrices. (English summary) **94g:15004**
Johnson, Charles Royal (*with* Olesky, D. Dale; Tsatsomeros, Michael; van den Driessche, P.) Spectra with positive elementary symmetric functions. (English summary) **94a:15028**
— (*with* Mehrmann, Volker; Olesky, D. Dale) Sign controllability of a nonnegative matrix and a positive vector. (English summary) **94a:93009**
— *see also* **Brú, Rafael, 94c:15014**
Kalinichenko, I. E. A relationship between minimax eigenvalues and maximal eigenvalues of nonnegative matrices. (Russian) **94c:15011**
Keener, James P. The Perron-Frobenius theorem and the ranking of football teams. (English summary) **94a:15012**
Kemperman, J. H. B. (*with* Skibinsky, Morris) Covariance spaces for measures on polyhedral sets. (English summary) **94g:60026**
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Kirstein, Bernd *see* **Fritzsche, Bernd; et al., 94k:47021** *and* **94k:47022**
Kogan, Natalia (*with* Berman, Abraham) Characterization of completely positive graphs. (English summary) **94b:05136**
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Lewin, Mordechai A family of inequalities and the sparsity of imprimitive matrices. **94i:15014**
Li, Lei (*with* Yoshioka, Yoshio) Some notes for the asymptotic stability of zero solutions of discrete systems with linear time-dependent coefficients. (Japanese. English summary)
Liu, Bo Lian Generalized exponents of primitive simple graphs. (English summary) **94c:05050**
Marek, Ivo (*with* Szyld, Daniel B.) Iterative and semi-iterative methods for computing stationary probability vectors of Markov operators. (English summary) **94a:65030**
McDonald, J. J. (*with* Neumann, Michael; Schneider, Hans) Resolvents of minus M-matrices and splittings of M-matrices. (English summary) **94m:15003**
Mehrmann, Volker *see* **Johnson, Charles Royal; et al., 94a:93009**
Merikoski, Jorma Kaarlo (*with* Virtanen, Ari; Bebiano, Natália; da Providência, João) Interdependence of some problems arising in generalizing the Marcus-de Oliveira determinantal conjecture. (English summary) **94j:15006**
Nabben, Reinhard A new application for generalized M-matrices. (English summary) **94h:65030**
Neumann, Michael *see* **McDonald, J. J.; et al., 94m:15003**
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Osaka, Hiroyuki A series of absolutely indecomposable positive maps in matrix algebras. (English summary) **94e:46106**
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Rijkeboer, Arie L. *see* **Engwerda, Jacob C.; et al., 94j:15012**
Rohn, Jiří Positive definiteness and stability of interval matrices. (English summary) **94k:93038**
Salce, Luigi (*with* Zanardo, Paolo) Completely positive matrices and positivity of least squares solutions. (English summary) **94c:15019**
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Yad-Shalom, I. Subdivision schemes determined by coefficients of a Hurwitz polynomial. (English summary) **94i:41008**
Yang, Xin Min An inequality for determinants of subpositive definite matrices. (Chinese. Chinese summary)
Yoshioka, Yoshio *see* **Li, Lei**
Zanardo, Paolo *see* **Salce, Luigi, 94c:15019**

15A51 Stochastic matrices

Achilles, Eva Implications of convergence rates in Sinkhorn balancing. (English summary) **94e:15047**
Borobia, Alberto Diagonals of rotation matrices. (English summary) **94c:15029**
Chiang, Tsu Shu (*with* Chou, Yün Hsiung) Asymptotic behavior of eigenvalues and random updating schemes. (English summary) **94e:15048**
Chou, Yün Hsiung *see* **Chiang, Tsu Shu, 94e:15048**
Cohen, Joel E. (*with* Derriennic, Yves; Zbăganu, Gh.) Majorization, monotonicity of relative entropy, and stochastic matrices. (English summary) **94i:15017**
Derriennic, Yves *see* **Cohen, Joel E.; et al., 94i:15017**
Gibson, Peter M. Stochastic complements in substochastic matrices. (English summary) **94b:15023**
Grone, Robert (*with* Loewy, Raphael; Pierce, Stephen) Nonchordal positive semidefinite stochastic matrices. (English summary) **94a:15037**
Leizarowitz, Arie Erratum: "On infinite products of stochastic matrices" [Linear Algebra Appl. **168** (1992), 189–219; MR 93b:15023]. **94a:15038**
Liao, Bo Lian The supremum of the exponents of doubly stochastic primitive matrices of order n. (Chinese. Chinese summary) **94m:15019**
Loewy, Raphael *see* **Grone, Robert; et al., 94a:15037**
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Seneta, Eugene Explicit forms for ergodicity coefficients of stochastic matrices. (English summary) **94i:15019**
Stewart, G. W. On the perturbation of Markov chains with nearly transient states. (English summary) **94d:15021**
Zbăganu, Gh. A class of contraction coefficients and improving the majorization inequalities. **94c:15030**
— *see also* **Cohen, Joel E.; et al., 94i:15017**

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Christensen, Jens Peter Reus (*with* Fischer, Pal) Multidimensional stochastic matrices and error-correcting codes. (English summary) **94e:94029**
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Gibson, Peter M. Permanental mates of doubly stochastic matrices. (English summary) **94b:15004**
Haviv, Moshe (*with* Ritov, Ya'acov) On series expansions and stochastic matrices. (English summary) **94h:60098**
Meyer, Carl D. The character of a finite Markov chain. (English summary) **94h:60100**
Rämmer, Annela On minimizing matrices. (English summary) **94a:15009**
Ritov, Ya'acov *see* **Haviv, Moshe, 94h:60098**
Seneta, Eugene Ergodicity for products of infinite stochastic matrices. (English summary) **94a:60100**
— Sensitivity of finite Markov chains under perturbation. (English summary) **94k:65197**
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15A52 Random matrices

Girko, V. L. Asymptotics of eigenvalues of symmetric random matrices. (Russian. Russian summary) **94j:15017**
Holmes, R. B. On random correlation matrices. **94b:15024**
Pastur, L. A. On the universality of the level spacing distribution for some ensembles of random matrices. (English summary) **94e:15049**

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Bohigas, Oriol Random matrix theories and chaotic dynamics. **94f:82038**
Forrester, P. J. The spectrum edge of random matrix ensembles. (English summary) **94h:82031**
— Statistical properties of the eigenvalue motion of Hermitian matrices. (English summary) **94b:82026**
Grincevičius, Arūnas On the joint limit distribution of normalized elements of products of random triangular matrices of third order. (Russian. Lithuanian summary) **94j:60036**
Hansen, Jennie C. (*with* Schmutz, Eric) How random is the characteristic polynomial of a random matrix? (English summary) **94j:05009**
Knill, Oliver Factorization of random Jacobi operators and Bäcklund transformations. (English summary) **94a:58092**
Markoš, P. Weak disorder expansion of Lyapunov exponents of products of random matrices: a degenerate theory. (English summary) **94c:82043**
Nagao, Taro (*with* Wadati, Miki) Ergodicity of random matrix ensembles related to orthogonal polynomials. (English summary) **94b:82019**
— (*with* Slevin, Keith) Nonuniversal correlations for random matrix ensembles. (English summary) **94d:82029**
Neudecker, Heinz A compact expression for the variance of sample second-order moments in multivariate linear relations—an alternative proof of Satorra's result. (English summary) **94m:15004**
Schmutz, Eric *see* **Hansen, Jennie C., 94j:05009**
Slevin, Keith *see* **Nagao, Taro, 94d:82029**
Wadati, Miki *see* **Nagao, Taro, 94b:82019**

15A54 Matrices over function rings in one or more variables

Doković, Dragomir Ž. (*with* Legorreta, L.) Hermitian matrices of order 2 over the ring of finite Fourier series with complex coefficients. (English summary) **94e:15050**
Evard, Jean-Claude (*with* Jafari, F.) The set of all $m \times n$ rectangular real matrices of rank r is connected by analytic regular arcs. (English summary) **94d:15022**
Freimanis, Yu. A. On a linear transformation, holomorphically dependent on a parameter, in a neighborhood of a root of the determinant of an operator. (Russian. Russian summary) **94h:15012**
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Legorreta, L. *see* **Doković, Dragomir Ž., 94e:15050**
Prokip, V. M. Common unital divisors of polynomial matrices over an arbitrary field. (Russian. Russian summary) **94i:15020**

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Murota, Kazuo On the Smith normal form of structured polynomial matrices. II. (English summary) **94i:15009**
Ran, André C. M. (*with* Rodman, Leiba; Rubin, Jonathan E.) Direct complements of invariant Lagrangian subspaces and minimal factorizations of skew-symmetric rational matrix functions. (English summary) **94e:15033**
Rodman, Leiba *see* **Ran, André C. M.; et al., 94e:15033**
Rubin, Jonathan E. *see* **Ran, André C. M.; et al., 94e:15033**
Tu, Bo Xun Inequalities for the left and right eigenvalues of quaternion matrices. (Chinese. English and Chinese summaries) **94d:15007**

15A57 Other types of matrices (Hermitian, skew-Hermitian, etc.)

Ai, Shan Jiang (*with* Yong, Xue Rong) Conditions for closure of Toeplitz matrices under products. (Chinese. English and Chinese summaries) **94b:15025**
Ando, Tsuyoshi Parametrization of minimal points of some convex sets of matrices. **94j:15018**
Baruch, Ehud Moshe (*with* Loewy, Raphael) Linear preservers on spaces of Hermitian or real symmetric matrices. (English summary) **94a:15039**
Bernasconi, A. (*with* Leoncini, Mauro; Resta, Giovanni) Spectral properties of some matrices close to the Toeplitz triangular form. (English summary) **94m:15020**
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15A66 Clifford algebras, spinors

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16Bxx General and miscellaneous

16B50 Category-theoretic methods and results (except as in 16D90, 16E10) [see also 18–XX]

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16Dxx Modules, bimodules and ideals

16D10 General module theory

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16D15 1-sided ideals

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16D20 Bimodules

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16D25 2-sided ideals

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16D30 Maximal and prime 2-sided ideals [see also 16N60, 16D60], simple rings (except as in 16Kxx)

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Sun, Shu Hao On biregular rings and their duality. (English summary) **94j:16053**

16D40 Free, projective, and flat modules and ideals [see also 18G05, 19A13]

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Asensio Mayor, J. (*with* Martínez Hernández, J.) On flat and projective envelopes. **94k:16005**
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16D50 Injective modules, self-injective rings [see also 16L60, 18G05]

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— Generalized Weyl algebras, kernel and tensor-simple algebras, their simple modules. (*see* **94j:16002**)
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Crivei, I. Finitely related modules. (Romanian. English summary)
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Guo, Shan Liang The Noetherian depth of modules over polynomial rings. (Chinese. Chinese summary)
Kaïdi, El Amin Mokhtar (*with* Barquero, D. Martín; Martín González, Cándido) Socle fine characterization of Artinian and Noetherian rings. (English summary) **94h:16008**
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Paramhans, S. A. On relatively extending modules. (English summary) **94g:16004**
Puninskiĭ, G. E. Endodistributive and pure-injective modules over chain rings. (Russian) **94g:16005**
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— O-tensor products of partially ordered modules and free f-modules. (Chinese. English and Chinese summaries)
Zhu, Bin Complete infinite modules. (Chinese. English and Chinese summaries)

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Skowroński, Andrzej Regular Auslander-Reiten components containing directing modules. **94b:16021**
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— (*with* Solberg, Øyvind) Relative homology and representation theory. II. Relative cotilting theory. **94k:16010b**
— (*with* Solberg, Øyvind) Relative homology and representation theory. III. Cotilting modules and Wedderburn correspondence. **94k:16010c**
Buys, A. (*with* Kyuno, Shoji) Two-sided socles of Morita context rings. (English summary) **94f:16011**
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Gómez Pardo, J. L. (*with* Guil Asensio, P. A.) Morita duality for Grothendieck categories. (English summary) **94c:18011**
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Herzog, Ivo Elementary duality of modules. **94a:03060**
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Năstăsescu, Constantin (*with* Torrecillas Jover, Blas) Relative graded Clifford theory. (English summary) **94f:15020**
— (*with* Torrecillas Jover, Blas) Localization for graded rings and modules. Applications to finiteness conditions. **94a:16039**
Prest, Mike Remarks on elementary duality. (English summary) **94d:03072**
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Yang, Ri Xin (*with* Xiao, Jie[1]) The indecomposable representations over representation-finite self-injective algebras of class B_n and C_n. (English summary) **94m:16006**
Zhou, Wei Exactness of the f-tensor functor for lattice-ordered modules and flat lattice-ordered modules. (Chinese. English and Chinese summaries) **94f:06018**

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Abou-Zaid, Salah On fuzzy ideals and fuzzy quotient rings of a ring. (English summary) **94h:16012**
Ahsan, Javed (*with* Khan, M. Farid; Shabir, M.; Zaman, Naveed) Rings characterized by their fuzzy submodules. (English summary) **94h:16013**
— (*with* Farid Khan, M.; Shabir, M.; Zaman, Naveed) Rings characterized by their fuzzy submodules. (English summary) **94j:16009**
Caruth, A. A short proof of Krull's intersection theorem. **94f:16013**
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Feigelstock, Shalom Subrings containing ideals.
Groenewald, N. J. (*with* Olivier, W. A.) Generalised ideals of rings. (English summary) **94a:16009**
Gupta, K. C. (*with* Kantroo, Manoj K.) The intrinsic product of fuzzy subsets of a ring. (English summary) **94d:16014**
Kantroo, Manoj K. *see* **Gupta, K. C., 94d:16014**
Khan, M. Farid *see* **Ahsan, Javed; et al., 94h:16013**
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Muganda, Godfrey C. Free fuzzy modules and their bases. (English summary) **94f:16014**
Mukherjee, T. K. (*with* Sen, Mridul Kanti) Primary fuzzy ideals and radical of fuzzy ideals. (English summary) **94f:16015**
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Qiu, He Fuzzy relations on rings. (Chinese. English and Chinese summaries)
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Vasantha Kandasamy, W. B. On the ring $\{R \times G \times S\}$. (English and Chinese summaries)
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Zahedi, M. M. On L-fuzzy residual quotient modules and P-primary submodules. (English summary) **94d:16015**
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Zhang, Cheng Yi Quotient rings and direct sums of fuzzy subrings. (Chinese. English and Chinese summaries)
Zhao, Jian Li (*with* Shi, Kai Quan; Yue, Ming Shan) Fuzzy modules over fuzzy rings. (English summary)
Zou, Kai Qi (*with* Liu, Xiao Dong) Fuzzy bi-ideals in regular rings. (Chinese. English and Chinese summaries)

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Marcja, Annalisa (*with* Prest, Mike; Toffalori, Carlo) The stability classification for abelian-by-finite groups and modules over a group ring. **94b:03065**
Prest, Mike *see* **Marcja, Annalisa; et al., 94b:03065**
Toffalori, Carlo *see* **Marcja, Annalisa; et al., 94b:03065**
Veldkamp, Ferdinand D. n-Barbilian domains. (English summary) **94a:51008**

16Exx Homological methods and results [see also 18Gxx]

16E10 Homological dimension

Burgess, W. D. (*with* Fuller, Kent R.; Green, Edward L.; Zacharia, D.) Left monomial rings—a generalization of monomial algebras. **94i:16005**
Chen, Jian Long *see* **Ding, Nan Qing, 94m:16010**
Colby, R. R. Tilting and the Cartan determinant. **94e:16015**
Ding, Nan Qing (*with* Chen, Jian Long) The homological dimensions of simple modules. (English summary) **94m:16010**
Fuller, Kent R. (*with* Iwanaga, Yasuo) On n-Gorenstein rings and Auslander rings of low injective dimension. **94c:16010**
— (*with* Iwanaga, Yasuo) On n-Gorenstein rings and Auslander rings of low injective dimension [MR 94c:16010]. (English summary) (*see* **94j:16002**)
— (*with* Wang, Yong) Redundancy in resolutions and finitistic dimensions of Noetherian rings. **94f:16016**
— *see also* **Burgess, W. D.; et al., 94i:16005**
Green, Edward L. *see* **Burgess, W. D.; et al., 94i:16005**
Happel, Dieter Reduction techniques for homological conjectures. **94h:16015**
Hoshino, Mitsuo Noetherian rings of self-injective dimension two. **94a:16010**
Iwanaga, Yasuo *see* **Fuller, Kent R., 94c:16010** *and* **(94j:16002)**
Koker, John J. Global dimension of rings with Krull dimension. (English summary) **94a:16011**
Li, Yuan Lin The syzygy theorem for finitely presented dimension. (Chinese. English summary) **94g:16007**
Malliavin, Marie-Paule Cohomologie locale de certains anneaux Auslander-Gorenstein. (English and French summaries) [Local cohomology of certain Auslander-Gorenstein rings] **94b:16011**
Martínez-Villa, Roberto Modules of dominant and codominant dimension. **94a:16012**
Shapiro, Jay A change of rings for finitistic dimension. **94g:16008**
Sikko, Svein A. Relative homological dimension. **94c:16011**
— Relative homological dimension [MR 94c:16011]. (*see* **94j:16002**)
Tong, Wen Ting Some homological dimensions of group rings. (Chinese. Chinese summary) **94a:16013**
Wang, Yong Finitistic dimensions of semiprimary rings. (English summary) **94i:16006**
— *see also* **Fuller, Kent R., 94f:16016**
Yamagata, Kunio A reduction formula for the Cartan determinant problem for algebras. **94j:16010**
Yang, Jing Hua The socle and homological dimension of a ring. (Chinese. English summary) **94j:16011**
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Zimmermann-Huisgen, Birge Homological assets of positively graded representations of finite-dimensional algebras. **94a:16014**
— Syzygies and homological dimensions over left serial rings. **94j:16012**
— Homological assets of positively graded representations of finite-dimensional algebras [MR 94a:16014]. (English summary) (*see* **94j:16002**)
— Bounds on global and finitistic dimension for finite-dimensional algebras with vanishing radical cube. (English summary) **94j:16013**
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Asashiba, Hideto Local algebras with radical cube zero. **94a:16029**
Asensio Mayor, J. (*with* Martínez Hernández, J.) On flat and projective envelopes. **94k:16005**
Auslander, Maurice (*with* Solberg, Øyvind) Gorenstein algebras and algebras with dominant dimension at least 2. **94h:16017**
Cibils, Claude The syzygy quiver and the finitistic dimension. **94j:16018**
Félix, Yves (*with* Halperin, Stephen; Thomas, Jean-Claude) The category of a map and the grade of a module. (English summary) **94e:55021**
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Page, Stanley S. Projective summands of not singular modules. **94a:16002**
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16Nxx Radicals and radical properties of rings

16N20 Jacobson radical, quasimultiplication

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— On the semiprimitivity of skew polynomial rings. (English summary) **94d:16029**
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16N40 Nil and nilpotent radicals, sets, ideals, rings

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16N60 Prime and semiprime rings [see also 16D30, 16D60, 16U10]

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Baba, Yoshitomo (*with* Oshiro, Kiyoichi) On a theorem of Fuller. **94b:16025**
Beidar, K. I. (*with* Wisbauer, Robert) Strictly semiprime modules and rings. (Russian) **94c:16028**
— (*with* Markov, V. T.) A semiprime PI ring which has a faithful module with Krull dimension is a Goldie ring. (Russian) **94m:16023**
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— (*with* Martindale, W. S., III; Miers, C. Robert) Centralizing maps in prime rings with involution. (English summary) **94j:16021**
— (*with* Vukman, Joso) On certain subrings of prime rings with derivations. (English summary) **94a:16034**
— On certain pairs of functions of semiprime rings. (English summary) **94e:16030**
Chang, Jui Chi On (α, β)-derivations of prime rings. (English summary) **94m:16024**
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López-Permouth, S. R. (*with* Rizvi, S. Tariq; Yousif, M. F.) Some characterizations of semiprime Goldie rings. **94h:16027**
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Sands, A. D. Some subidempotent radicals. **94j:16023**
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— *see also* **Brešar, Matej, 94a:16034**
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Argaç, N. (*with* Yenigül, M. Ş.) Lie ideals and symmetric bi-derivations of prime rings. **94k:16063**
Aydın, Neşet *see* **Kaya, Kâzım; et al., 94m:17031**
Brešar, Matej (*with* Vukman, Joso) Jordan (Θ, φ)-derivations. (English and Serbo-Croatian summaries) **94k:16064**
— On the compositions of (α, β)-derivations of rings, and applications to von Neumann algebras. **94h:16068**
— (*with* Škarabot, J.; Vukman, Joso) On a certain identity satisfied by a derivation and an arbitrary additive mapping. (English summary) **94f:16056**
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— (*with* Li, Pai Fei; Li, Ts'ung Ch'eng) Derivations with central values of powers of symmetric elements. **94i:16018**
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Ferrero, Miguel A. (*with* Cisneros, Eduardo; González, María Inés) Ore extensions and Jacobson rings. **94j:16050**
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Grzeszczuk, Piotr Constants of algebraic derivations. (English summary) **94f:16057**
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Kaya, Kâzım (*with* Kandamar, Hatice; Aydın, Neşet) Generalized Jordan structure of prime rings. (English and Turkish summaries) **94m:17031**
Kirichenko, V. V. (*with* Samir Valio; Yaremenko, Yu. V.) Quivers of semiperfect rings. (Russian. English and Ukrainian summaries) **94d:16026**
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Mikhovski, S. V. Isomorphic crossed products of groups and prime rings. (Russian. English and Russian summaries) **94f:16048**
Raggi Cárdenas, Francisco (*with* Ríos Montes, José) On the structure of self-injective regular rings. **94f:16006**
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16N80 General radicals and rings {For radicals in module categories, see 16S90.}

Beidar, K. I. On essential extensions, maximal essential extensions and iterated maximal essential extensions in radical theory. (English summary) **94j:16025**
Buys, A. A structure theorem for Ω-groups. **94j:16026**
Chen, Shen Can Supplementing, dual and quasi-hereditary radicals. (English summary) **94a:16035**
Chen, Wei Xin Radicals determined by strong nilpotency of elements of Γ-rings. (Chinese. Chinese summary) **94j:16027**
Chen, Ying Fang Atoms of lattices of hereditary strong radicals. (Chinese. English and Chinese summaries)
France-Jackson, Halina On prime essential rings. (English summary) **94c:16029**
Guo, Yuan Chun (*with* Liu, Gui Long) On strongly semisimple radicals of rings. (English summary) **94j:16028**
Kelarev, A. V. A general approach to the structure of radicals in some ring constructions. (English summary) **94k:16036**
Leavitt, W. G. Radical extensions. **94k:16037**
Liang, Zhi An A note on the atoms of the lattice of special radical classes. (English and Chinese summaries) **94j:16029**
Liu, Gui Long Semiprime radicals and minimal cogenerators of upper radicals. (Chinese. English and Chinese summaries) **94h:16029**
— *see also* **Guo, Yuan Chun, 94j:16028**
Mazurek, R. The distributive radical. **94j:16030**
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— Some questions concerning radicals of associative rings. **94j:16033**
— On general theory of radicals. **94b:16028**
de la Rosa, B. (*with* van Niekerk, J. S.; Wiegandt, Richard) A concrete analysis of the radical concept. (English summary) **94i:16010**
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Zhu, Bin Hereditary upper radicals and conditions for a supernilpotent radical and its supplementary radical to form a dual pair. (Chinese. English and Chinese summaries)

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Arnautov, V. I. (*with* Beidar, K. I.; Glavatskiĭ, S. T.; Mikhalëv, A. V.) Intersection property in the radical theory of topological algebras. **94e:16051**
Beidar, K. I. *see* **Arnautov, V. I.; et al., 94e:16051**
Chen, Wei Xin (*with* Zhang, Shou Chuan) The module theoretic characterization of special and supernilpotent radicals for Γ-rings. (English summary) **94f:16067**
Fong, Yuen (*with* Veldsman, Stefan; Wiegandt, Richard) Radical theory in varieties of near-rings in which the constants form an ideal. (English summary) **94e:16052**
— (*with* Wiegandt, Richard) Subdirect irreducibility and radicals. (English summary) **94g:17002**
Glavatskiĭ, S. T. *see* **Arnautov, V. I.; et al., 94e:16051**
Heyman, G. A. P. *see* **Olson, D. M.; et al., 94m:16025**
Kelarev, A. V. Radicals of semigroup rings of commutative semigroups. **94m:20131**
Li, Pai Fei (*with* Wiegandt, Richard) On radicals and rings with involution. (English summary) **94i:17005**
Liang, Zhi An On the radical classes in the variety of idempotent algebras. (English and Chinese summaries) **94h:08002**
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Olson, D. M. (*with* le Roux, H. J.; Heyman, G. A. P.) Classes of strongly semiprime rings. (English summary) **94m:16025**
Paul, A. C. General radical for Γ-rings. (English summary)
de la Rosa, B. (*with* Stewart, P. N.) On the maximal Kurosh-Amitsur model for the Wedderburn-Artin radical. **94i:16009**
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Sands, A. D. Some subidempotent radicals. **94j:16023**
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Tumurbat, S. On nonhypersolvable radicals of not necessarily associative rings. **94j:17005**
Veldsman, Stefan To the abstract theory of radicals: a contribution from near-rings. **94h:16083**
— *see also* **Fong, Yuen; et al., 94e:16052**
Weinert, Hanns Joachim (*with* Wiegandt, Richard) Complementary radical classes of proper semifields. (English summary) **94i:12005**
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Zhang, Zhi Huang Special radicals and Brown-McCoy radicals of weakly additive categories. (Chinese. English summary)

16N99 None of the above, but in this section

Andrunakievich, V. A. (*with* Ryabukhin, Yu. M.) Idempotents and quasiregularity with respect to right ideals of algebras. (Russian) **94a:16036**
Bajo, Ignacio Fuzzy nilpotent algebras. (English summary) **94j:16034**
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Zhu, Bin Some kinds of zeroid-pseudoradicals. (Chinese. English and Chinese summaries)

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Veldsman, Stefan Varieties and radicals of near-rings. (English summary) **94i:16023**

16Pxx Chain conditions, growth conditions, and other forms of finiteness

16P10 Finite rings and finite-dimensional algebras {For semisimple, see 16K20; for commutative, see 11Txx, 13Mxx.}

Bell, Howard E. (*with* Klein, Abraham A.) On finiteness of rings with finite maximal subrings. (English summary) **94g:16027**
Burris, Stanley (*with* Lawrence, John W.) The equivalence problem for finite rings. (English summary) **94c:16030**
Han, Juncheol Multiplicative group in a finite ring. **94h:16030**

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Zhao, Si Yuan Another method of classifying associative rings of order p^3. (Chinese. English and Chinese summaries)

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Jøndrup, Søren Artinian quotient rings of power-series rings. **94h:16051**
Klein, Abraham A. The finiteness of a ring with a finite maximal subring. **94c:16034**
Liu, Shao Xue (*with* Zhang, Pu) On the Hochschild homology of some finite-dimensional algebras. (English summary) **94b:16014**
— (*with* Zhang, Pu) On the Hochschild homology of some finite-dimensional algebras [MR 94b:16014]. (English summary) (*see* **94j:16002**)
Petrov, E. P. Identities of finite-dimensional nilpotent algebras. (Russian. Russian summary) **94g:16032**
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Simons, G. E. Finite rings in varieties with definable principal congruences. (English summary) **94i:16011**
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16P20 Artinian rings and modules

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Harada, Manabu Artinian rings related to almost relative projectivity. (*see* **94i:16002**)
Krause, Günter Flat embeddings of Noetherian algebras in Artinian rings. (English summary) **94a:16037**
Nicholson, W. K. A short proof of the Wedderburn-Artin theorem. (English summary) **94h:16031**
Peña P., Alirio J. A characterization of Artinian modules. (Spanish. English and Spanish summaries) **94j:16035**
Varadarajan, K. On certain classes of modules. (English summary) **94a:16038**

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Artamonov, V. A. (*with* Nikitin, A. N.) Artinian $(2, n)$-rings. (Russian) **94f:08008**
Burgess, W. D. (*with* Fuller, Kent R.; Green, Edward L.; Zacharia, D.) Left monomial rings—a generalization of monomial algebras. **94i:16005**
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Green, Edward L. *see* **Burgess, W. D.; et al., 94i:16005**
Harada, Manabu Almost projective modules. **94h:16003**
Jensen, Anders (*with* Jøndrup, Søren) Classical quotient rings of group graded rings. **94a:16074**
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Liu, Zhong Kui Characterizations of rings by their modules. **94f:16009**
Müller, Wolfgang[1] On self-duality of ring extensions over quasi-Frobenius rings. **94j:16042**
Nicholson, W. K. (*with* Yousif, M. F.) On quasi-continuous rings. (English summary) **94f:16034**
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Shamsuddin, Ahmad Dual dimension of modules over normalizing extensions. (English summary) **94j:16043**
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Zhou, Yi Qiang Relative socle, relative radical, and chain conditions. (English summary) **94c:16005**
Zimmermann-Huisgen, Birge Bounds on global and finitistic dimension for finite-dimensional algebras with vanishing radical cube. (English summary) **94j:16013**

16P40 Noetherian rings and modules

Brown, Kenneth A. The representation theory of Noetherian rings. **94h:16032**
Caruth, A. A module relation associated with the Artin-Rees lemma. **94g:16028**
Facchini, Alberto Absolutely pure modules and locally injective modules. **94m:16028**
Faith, Carl (*with* Menal, Pere) The structure of Johns rings. (English summary) **94j:16036**
Gateva-Ivanova, Tatiana Noetherian properties of skew polynomial rings with binomial relations. **94g:16029**
Jensen, Anders (*with* Jøndrup, Søren; Van den Bergh, Michel) Artinian quotient rings of filtered rings. **94j:16037**
Johnson, Johnny A. (*with* Taylor, Monty) A local characterization of Noetherian noncommutative rings. (English summary) **94c:16031**
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Miyachi, Jun-ichi Recollement and idempotent ideals. **94c:16032**
Năstăsescu, Constantin (*with* Torrecillas Jover, Blas) Localization for graded rings and modules. Applications to finiteness conditions. **94a:16039**
Oh, Sei-Qwon Finite-dimensional simple modules over the coordinate ring of quantum matrices. **94h:16033**
Resco, Richard (*with* Small, Lance W.) Affine Noetherian algebras and extensions of the base field. **94m:16029**
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Beidar, K. I. (*with* Puczylowski, E. R.; Smith, Patrick F.) Krull dimension of modules over involution rings. **94h:16064**
Fuller, Kent R. (*with* Iwanaga, Yasuo) On n-Gorenstein rings and Auslander rings of low injective dimension. **94c:16010**
— (*with* Iwanaga, Yasuo) On n-Gorenstein rings and Auslander rings of low injective dimension [MR 94c:16010]. (English summary) (*see* **94j:16002**)
— (*with* Wang, Yong) Redundancy in resolutions and finitistic dimensions of Noetherian rings. **94f:16016**
Generalov, A. I. Grothendieck groups and short exact sequences over Noetherian rings. (Russian. Russian summary) **94k:16014**
Hoshino, Mitsuo Noetherian rings of self-injective dimension two. **94a:16010**
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Jordan, David A. Iterated skew polynomial rings and quantum groups. **94b:16034**
— Height one prime ideals of certain iterated skew polynomial rings. **94i:16013**
Kreuzer, Alexander Modules over Hjelmslev rings. (English summary) **94e:51007**
Liu, Shao Xue Tensor products of path algebras and direct products of directed graphs. (English summary) **94j:16022**
López-Permouth, S. R. (*with* Rizvi, S. Tariq; Yousif, M. F.) Some characterizations of semiprime Goldie rings. **94h:16027**
MacKenzie, K. W. Prime ideals in skew Laurent polynomial rings. (English summary) **94f:16049**
Naveena Chandran, K. P. Generalized unique factorization rings. (English summary) **94k:16057**
Nguyễn Việt Dũng[2] (*with* Smith, Patrick F.) Hereditary CS-modules. **94b:16009**
Okniński, Jan Gel'fand-Kirillov dimension of Noetherian semigroup algebras. (English summary) **94k:16039**
Park, Sangwon Inverse polynomials and injective covers. **94k:16008**
Passman, D. S. Prime ideals in crossed products. (English summary) **94h:16043**
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Wang, Yong *see* **Fuller, Kent R., 94f:16016**
Whelan, E. A. Direct sum decompositions of conformal rings. **94m:16038**
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Zhou, Yi Qiang Relative socle, relative radical, and chain conditions. (English summary) **94c:16005**

16P50 Localization and Noetherian rings [see also 16U20]

Chatters, A. W. (*with* Hajarnavis, C. R.) Quotient rings of Noetherian module finite rings. **94h:16034**
Hajarnavis, C. R. *see* **Chatters, A. W., 94h:16034**

Items with secondary classifications in 16P50

Cox, Ben Generalizations of Deodhar's α-localization functor. (English summary) **94j:17008**
Hajarnavis, C. R. One sided invertibility and localisation. **94c:16038**
Jensen, Anders (*with* Jøndrup, Søren; Van den Bergh, Michel) Artinian quotient rings of filtered rings. **94j:16037**
Jøndrup, Søren *see* **Jensen, Anders; et al., 94j:16037**
Van den Bergh, Michel *see* **Jensen, Anders; et al., 94j:16037**
Verschoren, A. Functoriality and extensions. (English summary) **94h:16052**

16P60 Chain conditions on annihilators and summands: Goldie type conditions [see also 16U20], Krull dimension

Beidar, K. I. (*with* Mikhalëv, A. V.) Generalized Goldie rings. I, II. (Russian. Russian summary) **94c:16033**
Mikhalëv, A. V. *see* **Beidar, K. I., 94c:16033**
Rim, Seog Hoon (*with* Takemori, Kazunari) On dual Goldie dimension. **94a:16040**
Takemori, Kazunari *see* **Rim, Seog Hoon, 94a:16040**
Zhou, Yi Qiang Strongly compressible modules and semiprime right Goldie rings. (English summary) **94a:16041**

Items with secondary classifications in 16P60

Baba, Yoshitomo Injectivity of quasi-projective modules, projectivity of quasi-injective modules, and projective cover of injective modules. (English summary) **94f:16003**
Beidar, K. I. (*with* Markov, V. T.) A semiprime PI ring which has a faithful module with Krull dimension is a Goldie ring. (Russian) **94m:16023**
Domokos, M. Goldie's theorems for involution rings. (English summary) **94k:16062**
Faith, Carl Polynomial rings over Goldie-Kerr commutative rings. (English summary) **94k:13024**
Grzeszczuk, Piotr (*with* Matczuk, Jerzy) Goldie conditions for constants of algebraic derivations of semiprime algebras. (English summary) **94j:16064**
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16P70 Chain conditions on other classes of submodules, ideals, subrings, etc.; coherence

Beidar, K. I. (*with* Wiegandt, Richard) Rings with involution and chain conditions. (English summary) **94g:16030**
Klein, Abraham A. The finiteness of a ring with a finite maximal subring. **94c:16034**
Lanski, Charles On the cardinality of rings with special subsets which are finite. (English summary) **94m:16030**
Wiegandt, Richard *see* **Beidar, K. I., 94g:16030**

Items with secondary classifications in 16P70

Beidar, K. I. (*with* Puczyłowski, E. R.; Smith, Patrick F.) Krull dimension of modules over involution rings. **94h:16064**
Puczyłowski, E. R. *see* **Beidar, K. I.; et al., 94h:16064**
Rim, Seog Hoon Some aspects on Ore localizations in relative Artinian ring. **94b:16037**
Rodríguez González, Nieves On relative coherence and applications. **94b:16038**
Smith, Patrick F. *see* **Beidar, K. I.; et al., 94h:16064**

16P90 Growth rate, Gel′fand-Kirillov dimension

Ellingsen, Harold W., Jr. Graphs and the growth of monomial algebras. **94m:16031**
Hannah, John (*with* O'Meara, K. C.) A new measure of growth for countable-dimensional algebras. (English summary) **94c:16035**
Kahn, Bruno Fonction de Hilbert-Samuel de certaines algèbres graduées. (English and French summaries) [Hilbert-Samuel function of certain graded algebras] **94c:16036**
Kobayashi, Shigeru (*with* Kobayashi, Yuji) On algebras with Gel′fand-Kirillov dimension one. **94a:16042**
Kobayashi, Yuji *see* **Kobayashi, Shigeru, 94a:16042**
Okniński, Jan Gel′fand-Kirillov dimension of Noetherian semigroup algebras. (English summary) **94k:16039**
O'Meara, K. C. *see* **Hannah, John, 94c:16035**
Piotkovskiĭ, D. I. On the growth of graded algebras with a small number of defining relations. (Russian) **94g:16031**
Ufnarovskiĭ, V. A. Calculations of growth and Hilbert series by computer. (English summary) **94j:16038**

Items with secondary classifications in 16P90

Berele, Allan Generic verbally prime PI-algebras and their GK-dimensions. **94f:16038**
— Rates of growth of p.i. algebras. **94f:16043**
Guédénon, Thomas La formule des hauteurs de Tauvel dans les anneaux d'opérateurs différentiels. (English summary) [Tauvel's formula for heights in rings of differential operators] **94h:16044**

16P99 None of the above, but in this section

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Idelhadj, Abdelouahab (*with* Kaïdi, El Amin Mokhtar) A characterization of semi-Artinian rings. **94k:16007**
Kaïdi, El Amin Mokhtar *see* **Idelhadj, Abdelouahab, 94k:16007**

16Rxx Rings with polynomial identity

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Representation theory of finite groups and finite-dimensional algebras ★ Yūgen gun to yūgen jikan tagenkan no hyōgenron. [Representation theory of finite groups and finite-dimensional algebras] **94b:20003**

16R10 T-ideals, identities, varieties of rings and algebras

Berele, Allan Classification theorems for verbally semiprime algebras. **94a:16043**
— Generic verbally prime PI-algebras and their GK-dimensions. **94f:16038**
Carini, Luisa (*with* Di Vincenzo, Onofrio Mario) On the multiplicities of the cocharacters of the tensor square of the Grassmann algebra. (Italian summary) **94f:16039**
Di Vincenzo, Onofrio Mario *see* **Carini, Luisa, 94f:16039**
Kemer, A. R. The standard identity in characteristic p: a conjecture of I. B. Volichenko. (English summary) **94f:16040**
— Identities of algebras over a field of characteristic p. (English summary) **94h:16035**
Krasil′nikov, A. N. On the finiteness of the basis of identities of some varieties of associative rings. (Russian. Russian summary) (*see* **94d:00011**)
Nikolaev, Rusalin *see* **Popov, Angel, 94c:16037**
Petrov, E. P. Identities of finite-dimensional nilpotent algebras. (Russian. Russian summary) **94g:16032**
Piacentini Cattaneo, Giulia Maria Some computational methods in algebra. (Italian. English and Italian summaries) **94h:16036**
Popov, Angel (*with* Nikolaev, Rusalin) Varieties of associative algebras with unity whose lattice of subvarieties is distributive. II. (Russian. English and Russian summaries) **94c:16037**
Révész, Gábor *see* **Szigeti, Jenő; et al., 94h:16037**
Simons, G. E. Finite rings in varieties with definable principal congruences. (English summary) **94i:16011**
Szigeti, Jenő (*with* Tuza, Zsolt; Révész, Gábor) Eulerian polynomial identities on matrix rings. (English summary) **94h:16037**
Tuza, Zsolt *see* **Szigeti, Jenő; et al., 94h:16037**
Zheng, Yu Mei An identity theorem for normal rings of degree t and its application. (Chinese. English and Chinese summaries) **94m:16032**

Items with secondary classifications in 16R10

Bakhturin, Yu. A. (*with* Mikhalëv, A. A.; Petrogradskiĭ, V. M.; Zaĭtsev, M. V.) ★ Infinite-dimensional Lie superalgebras. **94b:17001**
— Identities and representations of enveloping algebras. (English summary) **94k:16044**
Beidar, K. I. (*with* Markov, V. T.) A semiprime PI ring which has a faithful module with Krull dimension is a Goldie ring. (Russian) **94m:16023**
Bell, Howard E. (*with* Klein, Abraham A.) On finiteness of rings with finite maximal subrings. (English summary) **94g:16027**
Drenski, Veselin S. Endomorphisms and automorphisms of relatively free algebras. **94j:16063**
Gatelyuk, O. V. (*with* Kukin, G. P.) Algebraic characterization of algebras with a recursive basis in some varieties. (Russian. English and Estonian summaries) **94c:17044**
Il′tyakov, A. V. On finite basis of identities of Lie algebra representations. **94e:17008**
Klein, Abraham A. *see* **Bell, Howard E., 94g:16027**
Kukin, G. P. *see* **Gatelyuk, O. V., 94c:17044**
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Petrogradskiĭ, V. M. *see* **Bakhturin, Yu. A.; et al., 94b:17001**
Zaĭtsev, M. V. Finite separability of relatively free Lie algebras. (Russian) **94g:17008**
— *see also* **Bakhturin, Yu. A.; et al., 94b:17001**

16R20 Semiprime p.i. rings, rings embeddable in matrices over commutative rings

Anan′in, A. Z. On representability of finitely generated algebras. **94a:16044**
Guralnick, Robert M. (*with* Montgomery, Susan) On invertible bimodules and automorphisms of noncommutative rings. **94d:16027**
Hajarnavis, C. R. One sided invertibility and localisation. **94c:16038**
Le Bruyn, Lieven Rational identities of matrices and a theorem of G. M. Bergman. (English summary) **94b:16029**
Montgomery, Susan *see* **Guralnick, Robert M., 94d:16027**
Ôhori, Masayuki On finitely generated P.I. algebras without infinite set of central orthogonal idempotents. (*see* **94i:16002**)

Items with secondary classifications in 16R20

Braun, Amiram (*with* Vonessen, Nikolaus) Integrality for PI-rings. (English summary) **94g:16034**
Vonessen, Nikolaus *see* **Braun, Amiram, 94g:16034**

16R30 Trace rings and invariant theory

Reichstein, Zinovy On automorphisms of matrix invariants. **94a:16045**

16R40 Identities other than those of matrices over commutative rings

Carini, Luisa A note on bounded codimensions. **94a:16046**
Di Vincenzo, Onofrio Mario On the graded identities of $M_{1,1}(E)$. (English summary) **94f:16041**

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Markov, V. T. Matrix algebras with two generators and the embedding of PI-algebras. (Russian) **94c:16039**
Simons, G. E. Finite rings in varieties with definable principal congruences. (English summary) **94i:16011**

16R50 Other kinds of identities (generalized polynomial, rational, involution)

Brešar, Matej Centralizing mappings and derivations in prime rings. **94f:16042**
Chuang, Chêng Liang A short proof of Martindale's theorem on GPIs. (English summary) **94g:16033**
Kőrtesi, Péter (*with* Szigeti, Jenő) On permanental identities over matrix rings. **94k:16040**
Lanski, Charles Quadratic central differential identities of prime rings. **94k:16041**
Szigeti, Jenő *see* **Kőrtesi, Péter, 94k:16040**

Items with secondary classifications in 16R50

Besolov, O. K. Strictly regular identities of skew fields. (Russian. English and Estonian summaries) **94c:16023**
Brešar, Matej (*with* Martindale, W. S., III; Miers, C. Robert) Centralizing maps in prime rings with involution. (English summary) **94j:16021**
Kharchenko, V. K. On invariants of reduced-finite groups with quasi-Frobenius algebra. (English summary) **94a:16064**
Martindale, W. S., III *see* **Brešar, Matej; et al., 94j:16021**
Miers, C. Robert *see* **Brešar, Matej; et al., 94j:16021**

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Amitsur, S. A. (*with* Small, Lance W.) Affine algebras with polynomial identities. **94h:16038**
Berele, Allan Rates of growth of p.i. algebras. **94f:16043**
Small, Lance W. *see* **Amitsur, S. A., 94h:16038**
Zolotykh, A. A. Trace identities of matrix superalgebras with involution. **94f:16044**

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Guralnick, Robert M. Biomodules over PI rings. **94a:16001**
Kelarev, A. V. On semigroup graded PI-algebras. **94i:20131**
Li, Ch′ïu K′un Derivations with invertible values on a multilinear polynomial. **94a:16067**
Lichtman, A. I. The soluble subgroups and the Tits alternative in linear groups over rings of fractions of polycylic group rings. I. (English summary) **94d:20056**
McCasland, R. L. (*with* Smith, Patrick F.) Prime submodules of Noetherian modules. **94k:16001**
Peyrière, Jacques (*with* Wen, Zhi Ying; Wen, Zhi Xiong) Polynômes associés aux endomorphismes de groupes libres. (English and French summaries) [Polynomials associated with endomorphisms of free groups] **94f:20049**

Smith, Patrick F. *see* **McCasland, R. L., 94k:16001**
Wen, Zhi Xiong *see* **Peyrière, Jacques; et al., 94f:20049**
Wen, Zhi Ying *see* **Peyrière, Jacques; et al., 94f:20049**

16Sxx Rings and algebras arising under various constructions

16S10 Rings determined by universal properties (free algebras, coproducts, adjunction of inverses, etc.)

Cohn, P. M. One-sided localization in rings. (English summary) **94k:16042**
Gerasimov, V. N. Free associative algebras and inverting homomorphisms of rings. **94j:16039**
Green, Edward L. An introduction to noncommutative Gröbner bases. **94j:16040**
Katsura, Masashi (*with* Kobayashi, Yuji) The shuffle algebra and its derivations. (English summary) **94f:16045**
Kobayashi, Yuji *see* **Katsura, Masashi, 94f:16045**
Melançon, Guy Constructions des bases standard des $K\langle A\rangle$-modules à droite. (English and French summaries) [Constructions of standard bases of right $K\langle A\rangle$-modules] **94f:16046**
Volkov, Michael V. Varieties of associative rings in which all the critical rings are basis rings. (Russian. English and Russian summaries) **94a:16047**
Warren, Roger D. The free A-ring is a graded A-ring. (English summary) **94d:16028**

Items with secondary classifications in 16S10

Arnold, David M. (*with* Dugas, Manfred) Block rigid almost completely decomposable groups and lattices over multiple pullback rings. (English summary) **94f:20102**
Berele, Allan Generic verbally prime PI-algebras and their GK-dimensions. **94f:16038**
Burlakov, M. P. Generalized Grassmann algebras on complex manifolds. (Russian) **94d:32013**
Drenski, Veselin S. Endomorphisms and automorphisms of relatively free algebras. **94j:16063**
Dugas, Manfred *see* **Arnold, David M., 94f:20102**
Goodearl, K. R. (*with* Menal, Pere; Moncasi, J.) Free and residually Artinian regular rings. **94f:16025**
Menal, Pere *see* **Goodearl, K. R.; et al., 94f:16025**
Moncasi, J. *see* **Goodearl, K. R.; et al., 94f:16025**
Sun, Shu Hao A unification of some sheaf representations of rings by quotient rings. **94k:16054**

16S15 Finite generation, finite presentability, normal forms (diamond lemma, term-rewriting)

Markov, V. T. Matrix algebras with two generators and the embedding of PI-algebras. (Russian) **94c:16039**
Vaughan-Lee, Michael An algorithm for computing graded algebras. (English summary) **94k:16043**

Items with secondary classifications in 16S15

Ellingsen, Harold W., Jr. Graphs and the growth of monomial algebras. **94m:16031**
Gerasimov, V. N. Free associative algebras and inverting homomorphisms of rings. **94j:16039**
Kobayashi, Shigeru (*with* Kobayashi, Yuji) On algebras with Gel′fand-Kirillov dimension one. **94a:16042**
Kobayashi, Yuji *see* **Kobayashi, Shigeru, 94a:16042**
Resco, Richard (*with* Small, Lance W.) Affine Noetherian algebras and extensions of the base field. **94m:16029**
Small, Lance W. *see* **Resco, Richard, 94m:16029**

16S20 Centralizing and normalizing extensions

Angelone, Maria E. Jones index and fixed rings of simple algebras. **94i:16012**
Braun, Amiram (*with* Vonessen, Nikolaus) Integrality for PI-rings. (English summary) **94g:16034**
Byun, L. H. The second layer condition for certain centralizing extensions of FBN rings and polynormal rings. **94b:16030**
Kadison, Lars Algebraic aspects of the Jones basic construction. (English summary) **94j:16041**
Müller, Wolfgang[1] On self-duality of ring extensions over quasi-Frobenius rings. **94j:16042**
Shamsuddin, Ahmad Dual dimension of modules over normalizing extensions. (English summary) **94j:16043**
Vonessen, Nikolaus *see* **Braun, Amiram, 94g:16034**

Items with secondary classifications in 16S20

Krasil′nikov, A. N. On the group of units of a ring whose associated Lie ring is metabelian. (Russian) **94c:16024**

16S30 Universal enveloping algebras of Lie algebras [See mainly 17B35]

Bakhturin, Yu. A. Identities and representations of enveloping algebras. (English summary) **94k:16044**
Bergen, Jeffrey (*with* Passman, D. S.) Delta methods in enveloping rings. II. (English summary) **94j:16044**
Joseph, Anthony Some ring-theoretic techniques and open problems in enveloping algebras. **94j:16045**
Ooms, A. I. (*with* Wauters, P.) Primitive extensions of an enveloping algebra. **94j:16046**
Passman, D. S. *see* **Bergen, Jeffrey, 94j:16044**
Stover, Christopher R. The equivalence of certain categories of twisted Lie and Hopf algebras over a commutative ring. (English summary) **94e:16031**
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Bakhturin, Yu. A. (*with* Mikhalëv, A. A.; Petrogradskiĭ, V. M.; Zaĭtsev, M. V.) ★ Infinite-dimensional Lie superalgebras. **94b:17001**
Du, Jie A matrix approach to IC bases. **94b:17020**
— A matrix approach to IC bases [MR 94b:17020]. (English summary) (*see* **94j:16002**)
Goodearl, K. R. (*with* Letzter, E. S.) Prime ideals in skew and q-skew polynomial rings. (English summary) **94j:16051**
Grabowski, Janusz Universal enveloping algebras and quantization. **94k:58053**
Joseph, Anthony (*with* Letzter, Gail) Local finiteness of the adjoint action for quantized enveloping algebras. **94b:17023**
Letzter, E. S. *see* **Goodearl, K. R., 94j:16051**
Letzter, Gail *see* **Joseph, Anthony, 94b:17023**
Mikhalëv, A. A. *see* **Bakhturin, Yu. A.; et al., 94b:17001**
Oh, Sei-Qwon Primitive ideals of the quantised enveloping algebra of a complex Lie algebra. (English summary) **94m:17008**
Passman, D. S. The adjoint representation of group algebras and enveloping algebras. (English summary) **94d:16039**
Petrogradskiĭ, V. M. *see* **Bakhturin, Yu. A.; et al., 94b:17001**
Razmyslov, Yu. P. Classical operators of quantum mechanics in the modular case. I. (Russian. Russian summary) **94c:16016**
Shnider, Steven Deformation cohomology for bialgebras and quasi-bialgebras. **94e:16048**
Tarasov, V. O. Cyclic monodromy matrices for the R-matrix of the six-vertex model and the chiral Potts model with fixed spin boundary conditions. (English summary) **94c:82033**
Turaev, V. G. Skein quantization of Poisson algebras of loops on surfaces. **94a:57023**
Zaĭtsev, M. V. *see* **Bakhturin, Yu. A.; et al., 94b:17001**

16S32 Rings of differential operators [see also 13N10, 32C38]

Coutinho, S. C. (*with* Holland, Martin P.) K-theory of twisted differential operators. **94e:16032**
Holland, Martin P. Varieties which are almost $\mathcal{D}$-affine. (English summary) **94f:16047**
— *see also* **Coutinho, S. C., 94e:16032**
Maksimov, V. M. (*with* Pod″yapol′skaya, M. V.) Representation of combinatorial sums of free monomials in the algebra of special Ore polynomials. (Russian) **94e:16033**
Ochiai, Hiroyuki (*with* Ōshima, Toshio; Sekiguchi, Hideko) Commuting families of symmetric differential operators.
Ōshima, Toshio *see* **Ochiai, Hiroyuki; et al.**
Pod″yapol′skaya, M. V. *see* **Maksimov, V. M., 94e:16033**
Sekiguchi, Hideko *see* **Ochiai, Hiroyuki; et al.**
Vidal, Robert Un analogue non commutatif du théorème de Puiseux. (English summary) [A noncommutative analogue of the Puiseux theorem] **94k:16045**

Items with secondary classifications in 16S32

Adjamagbo, Kossivi Panorama de la théorie des déterminants sur un anneau non commutatif. [Panorama of the theory of determinants over a noncommutative ring] **94g:16043**
Bavula, V. V. Generalized Weyl algebras, kernel and tensor-simple algebras, their simple modules. **94i:16016**
— Generalized Weyl algebras, kernel and tensor-simple algebras, their simple modules. (*see* **94j:16002**)
Bien, Frédéric Orbits, multiplicities and differential operators. **94g:22027**
Byun, L. H. A note on the module structure of Weyl algebras and simple Noetherian rings. **94d:16003**
Gallo, Giovanni (*with* Mishra, Bhubaneswar; Ollivier, François) Some constructions in rings of differential polynomials. (*see* **94b:68002**)
Goodearl, K. R. (*with* Letzter, E. S.) Prime ideals in skew and q-skew polynomial rings. (English summary) **94j:16051**
Letzter, E. S. *see* **Goodearl, K. R., 94j:16051**
Loeser, François (*with* Sabbah, Claude) Caractérisation des $\mathcal{D}$-modules hypergéométriques irréductibles sur le tore. II. (English and French summaries) [Characterization of irreducible hypergeometric $\mathcal{D}$-modules on the torus. II] **94f:13016**
Mishra, Bhubaneswar *see* **Gallo, Giovanni; et al., (94b:68002)**
Ollivier, François *see* **Gallo, Giovanni; et al., (94b:68002)**
Sabbah, Claude *see* **Loeser, François, 94f:13016**
Wallach, Nolan R. Polynomial differential operators associated with Hermitian symmetric spaces. **94a:22031**

16S34 Group rings [see also 20C05, 20C07], Laurent polynomial rings

Aizenbud, Alexander M. On the GK-transcendency degree of division rings of fractions of polycyclic group rings. (English summary) **94k:16046**
Alexander, George M. Semisimple elements in group algebras. (English summary) **94c:16040**
Arora, Satya R. Nilpotent elements in group algebras. **94b:16031**
Cedó, Ferran (*with* Hartley, Brian) Maximal quotient rings and essential right ideals in group rings of locally finite groups. (English summary) **94b:16032**
Chin, Angelina Yan Mui (*with* Tan, Keng Teh) A note on semiperfect group rings. (English summary) **94j:16047**
Dubrovin, N. I. Rational closures of group rings of left-ordered groups. (Russian. Russian summary) **94g:16035**
Hartley, Brian *see* **Cedó, Ferran, 94b:16032**
Jespers, Eric (*with* Leal, Guilherme; Parmenter, M. M.) Bicyclic and Bass cyclic units in group rings. (English summary) **94j:16048**
Karan, Ram *see* **Vermani, L. R., 94c:16041** *and* **94m:16033**
Leal, Guilherme (*with* Polcino Milies, C.) Isomorphic group (and loop) algebras. **94a:16048**

— *see also* **Jespers, Eric; et al., 94j:16048**
Parmenter, M. M. Free torsion-free normal complements in integral group rings. **94k:16047**
— *see also* **Jespers, Eric; et al., 94j:16048**
Passman, D. S. (*with* Zalesskiĭ, A. E.) Semiprimitivity of group algebras of locally finite simple groups. (English summary) **94g:16036**
— Semiprimitivity of group algebras of infinite simple groups of Lie type. (English summary) **94h:16039**
Polcino Milies, C. *see* **Leal, Guilherme, 94a:16048**
Salem, Refaat M. Group rings with strongly 2-generated augmentation ideals. (English summary) **94a:16049**
Tan, Keng Teh *see* **Chin, Angelina Yan Mui, 94j:16047**
Vasantha Kandasamy, W. B. *s*-weakly regular group rings. (English summary) **94h:16040**
— Group rings which [are] a direct sum of subrings. (English summary)
Vermani, L. R. (*with* Karan, Ram) Augmentation quotients of integral group rings. III. **94c:16041**
— (*with* Karan, Ram) Corrigendum: "Augmentation quotients of integral group rings. III" [J. Indian Math. Soc. (N.S.) **58** (1992), no. 1-4, 19–31; MR 94c:16041]. **94m:16033**
Vovsi, Samuel M. On the semigroups of fully invariant ideals of the free group algebra and the free associative algebra. **94a:16050**
Zalesskiĭ, A. E. *see* **Passman, D. S., 94g:16036**
Zhou, Yong Xin (*with* Zhu, Yuan Sen) The uniqueness problem for coefficient rings of isomorphic group rings. (Chinese. Chinese summary) **94a:16051**
Zhu, Yuan Sen *see* **Zhou, Yong Xin, 94a:16051**

Items with secondary classifications in 16S34

de Barros, Luiz G. X. On semisimple alternative loop algebras. (English summary) **94i:17035**
Bist, Vikas Unit groups of integral group rings. **94b:16041**
Bovdi, A. (*with* Lakatos, P.) On the exponent of the group of normalized units of modular group algebras. **94h:16056**
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— Blocks which are stably isomorphic to defect group rings [MR 94b:20009]. (*see* **94j:16002**)
— (*with* Scott, Leonard L.) Automorphisms and nonabelian cohomology: an algorithm. (English summary) **94i:20010**
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— *see also* **Hoechsmann, K., 94f:20007**; **Giambruno, Antonio, 94g:20008** *and* **Parmenter, M. M., 94k:20009**
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— Iterated skew polynomial rings and quantum groups. **94b:16034**
— Height one prime ideals of certain iterated skew polynomial rings. **94i:16013**
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— (*with* Rosen, Mary Peles) The Martindale ring of quotients of a skew polynomial ring of automorphism type. **94g:16038**
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16S40 Smash products of general Hopf actions [see also 16W30]

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— A note on smash products over Frobenius algebras. **94h:16046**
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16S50 Endomorphism rings: matrix rings [see also 15–XX]

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16S60 Rings of functions, subdirect products, sheaves of rings

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16S90 Maximal ring of quotients, torsion theories, radicals on module categories [see also 13D30, 18E40] {For radicals of rings see 16Nxx.}

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Jøndrup, Søren Artinian quotient rings of power-series rings. **94h:16051**
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Chatters, A. W. (*with* Hajarnavis, C. R.) Quotient rings of Noetherian module finite rings. **94h:16034**
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Golan, Jonathan S. (*with* Head, Tom) ★ Modules and the structure of rings. (English summary) **94c:16001**
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— Simple $D[X, Y; \sigma, a]$-modules. (Russian. Russian and Ukrainian summaries) **94b:16039**
— Generalized Weyl algebras, kernel and tensor-simple algebras, their simple modules. (*see* **94j:16002**)
— Description of two-sided ideals in a class of noncommutative rings. I. (Russian. Russian and Ukrainian summaries) **94h:16053**
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Chen, Jin Quan *see* **Pan, Feng, 94h:20019**
Chick, H. L. Quasi-division rings—some examples of quasiregular rings. (English summary) **94j:16019**
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Levy, Dan The structure of finite-dimensional affine Hecke algebra quotients and their realization in 2D lattice models. (English summary) **94k:82035**
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Loos, Ottmar (*with* Neher, Erhard) Associative and Jordan shift algebras. **94b:17055**
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16Uxx Conditions on elements (including elements of matrix rings, etc.)

16U10 Integral domains

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16U20 Ore rings, multiplicative sets, Ore localization

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16U30 Divisibility, noncommutative UFDs

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16U50 Algebraicity and local finiteness [see also 16N40]

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16U60 Units, groups of units, general linear groups

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— *see also* **Jespers, Eric; et al., 94j:16048**
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16U70 Center, normalizer (invariant elements)

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16U80 Generalizations of commutativity

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— Commutativity conditions for semi-prime rings. (English and Turkish summaries)
— Commutativity results for one-sided s-unital and semi-prime rings. (English summary) **94h:16059**
— Commutativity of rings with constraints involving a subset. (English summary) **94d:16033**
— (*with* Khan, Moharram A.; Khan, Mohd. Saeed; Samman, M. S.) On commutativity of rings with constraints on subsets. **94k:16060**
— (*with* Khan, Moharram A.) Some elementary commutativity theorems for associative rings. **94h:16060**
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Bell, Howard E. On commutativity and structure of certain periodic rings. (English and Serbo-Croatian summaries) **94f:16055**
— (*with* Klein, Abraham A.) Two commutativity problems for rings. (English summary)
— Some results on commutativity and anti-commutativity in rings.
Dhoble, A. R. *see* **Giri, R. D., 94b:16043**
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— (*with* Dhoble, A. R.) A commutativity theorem for certain semiprime rings. (English summary) **94b:16043**
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Mogami, Isao Structure of rings satisfying certain conditions and commutativity theorems. II. (*see* **94i:16002**)
Nishinaka, Tsunekazu Structure of rings satisfying certain conditions and commutativity theorems. I. (*see* **94i:16002**)
— On commutativity of rings satisfying certain conditions. (English summary) **94h:16062**
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Steinberg, Stuart A. Positive semidefinite forms over totally ordered domains. **94h:16063**
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Chang, Jui Chi On (α, β)-derivations of prime rings. (English summary) **94m:16024**
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Zheng, Yu Mei An identity theorem for normal rings of degree t and its application. (Chinese. English and Chinese summaries) **94m:16032**

16U99 None of the above, but in this section

Komatsu, Hiroaki *see* **Okamoto, Hiroaki; et al.**
Naveena Chandran, K. P. Rings with many normal elements. (English summary)
Okamoto, Hiroaki (*with* Komatsu, Hiroaki; Tominaga, Hisao) Note on quasi-Boolean rings and related rings. (English and Serbo-Croatian summaries)
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16Wxx Rings and algebras with additional structure

16W10 Rings with involution: Lie, Jordan and other nonassociative structures [see also 17B60, 17C50, 46Kxx]

Bayer-Fluckiger, E. (*with* Shapiro, Daniel B.; Tignol, J.-P.) Hyperbolic involutions. **94j:16060**
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— (*with* Puczyłowski, E. R.; Smith, Patrick F.) Krull dimension of modules over involution rings. **94h:16064**
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Tyukavkin, D. V. Pseudofunctions of rank on a regular ring with involution. (Russian) **94a:16062**
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16W20 Automorphisms and endomorphisms, actions of groups and semigroups and their fixed rings

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Brešar, Matej On skew-commuting mappings of rings. (English summary) **94a:16063**
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16W25 Derivations, actions of Lie algebras

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— (*with* Škarabot, J.; Vukman, Joso) On a certain identity satisfied by a derivation and an arbitrary additive mapping. (English summary) **94f:16056**
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— Derivations in prime rings. (English summary) **94h:16069**
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16W30 Coalgebras, bialgebras, Hopf algebras [see also 57T05, 16S30–16S40]; rings, modules, etc. on which these act

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Kholodov, A. N. Formal coalgebras and applications. (English summary) **94f:16058**
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— (*with* Towber, Jacob) Yetter-Drinfel'd categories associated to an arbitrary bialgebra. (English summary) **94f:16060**
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Karpacz ★ Infinite-dimensional geometry in physics. **94b:00039**
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Ramat Gan ★ Quantum deformations of algebras and their representations. **94h:17008**
Rehovot ★ Quantum deformations of algebras and their representations. **94h:17008**
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of algebras and their representations. **94h:17008**

16W50 Graded rings and modules

Dăscălescu, Sorin (*with* del Rio Mateos, Angel) Graded T-rings with finite support. **94h:16076**
Gómez Pardo, J. L. (*with* Năstăsescu, Constantin) Topological aspects of graded rings. **94k:16068**
— (*with* Năstăsescu, Constantin) Graded Clifford theory and duality. **94j:16073**
Gómez Torrecillas, José (*with* Torrecillas Jover, Blas) Strongly graded left FTF rings. (English summary) **94b:16046**
Jensen, Anders (*with* Jøndrup, Søren) Classical quotient rings of group graded rings. **94a:16074**
Jespers, Eric Simple graded rings. (English summary) **94e:16050**
— Graded rings and Asano orders. (English summary) **94a:16075**
Jøndrup, Søren *see* **Jensen, Anders, 94a:16074**
Kerner, Richard Z_3-graded structures. (English summary) **94i:16020**
Kobayashi, Shigeru On finitely generated graded domain with global dimension ≤ 2. (English summary) (*see* **94d:20002**)
Li, Hui Shi (*with* Van Oystaeyen, Freddy) Sign gradations on group ring extensions of graded rings. (English summary) **94h:16077**
Liu, Shao Xue Smash products of G-graded rings and modules with G-sets. (Chinese. Chinese summary) **94h:16078**
Mărcuş, Andrei Static modules and Clifford theory for strongly graded rings. (English summary) **94h:16079**
Năstăsescu, Constantin (*with* Van Oystaeyen, Freddy) Clifford theory for subgroups of grading groups. **94f:16063**
— (*with* Torrecillas Jover, Blas) Graded coalgebras. **94j:16074**
— *see also* **Gómez Pardo, J. L., 94j:16073** *and* **94k:16068**
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Saorín Castaño, Manuel Gradability of algebras. **94b:16047**
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Van Oystaeyen, Freddy (*with* Sallam, Ragabia) A microstructure sheaf and quantum sections over a projective scheme. **94c:16055**
— *see also* **Năstăsescu, Constantin, 94f:16063** *and* **Li, Hui Shi, 94h:16077**
Yekutieli, Amnon Dualizing complexes over noncommutative graded algebras. **94a:16077**
Zhu, Bin The Frobenius reciprocity theorem in the theory of graded rings. (Chinese. English and Chinese summaries) **94k:16070**

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Boulagouaz, M. The graded and tame extensions. **94k:12010**
Cuntz, Joachim Quantized differential forms in noncommutative topology and geometry. **94c:58009**
Dupont, Nicolas On the deviations of a Q-algebra. (English summary) **94b:55019**
Haran, Shai An invitation to dyslectic geometry. **94m:16047**
Ion, Ion D. (*with* Niţă, Constantin) Ultraproduits gradués. Applications. (French summary) [Graded ultraproducts. Applications] **94d:03062**
Irving, Ronald S. Graded BGG algebras. (English summary) **94e:16013**
Jensen, Anders (*with* Jøndrup, Søren; Van den Bergh, Michel) Artinian quotient rings of filtered rings. **94j:16037**
Jøndrup, Søren *see* **Jensen, Anders; et al., 94j:16037**
Kahn, Bruno Fonction de Hilbert-Samuel de certaines algèbres graduées. (English and French summaries) [Hilbert-Samuel function of certain graded algebras] **94c:16036**
Kelarev, A. V. On semigroup graded PI-algebras. **94i:20131**
Levasseur, Thierry (*with* Smith, S. Paul) Modules over the 4-dimensional Sklyanin algebra. (English and French summaries) **94f:16054**
Marubayashi, Hidetoshi (*with* Miyamoto, Haruo; Ueda, Akira[1]) A note on minimal prime ideals in component regular graded rings. (English summary) **94k:16004**
Matsumura, Hideyuki On graded modules associated with sheaves of differential forms. **94h:14019**
Miyamoto, Haruo *see* **Marubayashi, Hidetoshi; et al., 94k:16004**
Năstăsescu, Constantin (*with* Torrecillas Jover, Blas) Relative graded Clifford theory. (English summary) **94f:15020**
— (*with* Torrecillas Jover, Blas) Localization for graded rings and modules. Applications to finiteness conditions. **94a:16039**
Niţă, Constantin *see* **Ion, Ion D., 94d:03062**
Smith, S. Paul *see* **Levasseur, Thierry, 94f:16054**
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Zhang, Sheng Gui gr-Morita duality and smash products. (Chinese. English and Chinese summaries) **94j:16008**

16W55 "Super" (or "skew") structure [see also 17A70, 17B70, 17C70] {For exterior algebras, see 15A75; for Clifford algebras, see 11E88, 15A66.}

Berele, Allan Embedding theorems for superalgebras. **94g:16049**
Dimakis, Aristophanes (*with* Müller-Hoissen, Folkert; Striker, T.) Noncommutative differential calculus and lattice gauge theory. (English summary) **94d:16042**
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Bracken, A. J. *see* **Gould, M. D.; et al., 94k:16052**
Brini, Andrea (*with* Huang, Rosa Q.; Teolis, Antonio G. B.) The umbral symbolic method for supersymmetric tensors. **94a:05015**
Fischman, Davida Schur's double centralizer theorem: a Hopf algebra approach. **94e:16043**
Gould, M. D. (*with* Zhang, R. B.; Bracken, A. J.) Quantum double construction for graded Hopf algebras. (English summary) **94k:16052**
Huang, Rosa Q. *see* **Brini, Andrea; et al., 94a:05015**
Khrennikov, A. Yu. On the theory of an infinite-dimensional superspace: reflexive Banach supermodules. (Russian. Russian summary) **94g:46049**
Sudbery, A. The algebra of differential forms on a full matric bialgebra. (English summary) **94f:16062**
Teolis, Antonio G. B. *see* **Brini, Andrea; et al., 94a:05015**
Zhang, R. B. Finite-dimensional irreducible representations of the quantum supergroup $U_q(\mathrm{gl}(m/n))$. (English summary) **94c:17034**
— *see also* **Gould, M. D.; et al., 94k:16052**
Zolotykh, A. A. Trace identities of matrix superalgebras with involution. **94f:16044**

16W60 Filtrations and valuations, generalizations of Euclidean algorithm, completions, formal power series and related constructions [see also 13Jxx]

del Rio Mateos, Angel Categorical methods in graded ring theory. (English summary) **94c:16056**

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van den Berg, J. E. (*with* Raftery, J. G.) On rings (and chain domains) with restricted completeness conditions on topologizing filters. **94m:16037**
Brown, Kenneth A. (*with* Lorenz, Martin) Grothendieck groups of invariant rings: filtrations. (English summary) **94h:16065**
Brungs, H.-H. Groups associated with valuations. **94m:16020**
Haiman, Mark D. Noncommutative rational power series and algebraic generating functions. (English summary) **94d:05003**
Jensen, Anders (*with* Jøndrup, Søren; Van den Bergh, Michel) Artinian quotient rings of filtered rings. **94j:16037**
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Le Bruyn, Lieven (*with* Van Oystaeyen, Freddy) Quantum sections and gauge algebras. (English summary) **94c:16050**
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Raftery, J. G. *see* **van den Berg, J. E., 94m:16037**
Rump, Wolfgang Module valuations and representation theory of orders. I. Algebraic aspects. **94h:16023a**
— Module valuations and representation theory of orders. II. Topological aspects. **94h:16023b**
Sallam, Ragabia *see* **Van Oystaeyen, Freddy, 94c:16055**
Tignol, J.-P. Classification of wild cyclic field extensions and division algebras of prime degree over a Henselian field. **94a:12015**
Van den Bergh, Michel *see* **Jensen, Anders; et al., 94j:16037**
Van Oystaeyen, Freddy (*with* Sallam, Ragabia) A microstructure sheaf and quantum sections over a projective scheme. **94c:16055**
— *see also* **Le Bruyn, Lieven, 94c:16050**

16W80 Topological and ordered rings and modules [see also 13Jxx]

Arnautov, V. I. (*with* Beĭdar, K. I.; Glavatskiĭ, S. T.; Mikhalëv, A. V.) Intersection property in the radical theory of topological algebras. **94e:16051**
Beĭdar, K. I. *see* **Arnautov, V. I.; et al., 94e:16051**
Dikranjan, Dikran (*with* Tonolo, Alberto) On the lattice of linear module topologies. (English summary) **94a:16078**
Glavatskiĭ, S. T. *see* **Arnautov, V. I.; et al., 94e:16051**
Göbel, Rüdiger (*with* Goldsmith, B.) Cotorsion-free algebras as endomorphism algebras in L—the discrete and topological cases. (English summary) **94h:16080**
Goldsmith, B. *see* **Göbel, Rüdiger, 94h:16080**
Kamal, Mahmoud Ahmad The structure of quasi-continuous modules over Ore domains. **94c:16057**
Laradji, Abdellatif A short algebraic proof of a theorem of Warfield. (English summary) **94m:16048**
Mikhalëv, A. V. *see* **Arnautov, V. I.; et al., 94e:16051**
Molchanov, V. A. On the representation of topological algebras by transformations. (Russian) **94g:16050**
Papatriantafillou, Maria H. A Serre-Swan theorem for bundles of topological modules. (English summary) **94j:16075**
Picavet, Gabriel Compactifications de Bohr d'anneaux et de modules. [Bohr compactifications of rings and modules] **94f:16064**
Tonolo, Alberto Corrigenda to the paper: "On the existence of a finest equivalent linear topology" [Comm. Algebra **20** (1992), no. 2, 437–455; MR 93b:16080].
— *see also* **Dikranjan, Dikran, 94a:16078**
Ursul, M. I. Boundedness in locally compact rings. (English summary) **94j:16076**

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Ahsanullah, T. M. G. (*with* Al-Thukair, Fawzi) A characterization of fuzzy neighborhood commutative division rings. (English summary) **94g:13014**
Al-Thukair, Fawzi *see* **Ahsanullah, T. M. G., 94g:13014**
Choban, M. M. (*with* Kiriyak, L. L.) Application of uniform structures in the investigation of free topological algebras. (Russian. Russian summary) **94e:54049**
Cipu, Mihai Some properties of the convexity in modules over F-ordered rings. **94d:06043**
Craven, Thomas C. Orderings for noncommutative rings. **94k:14049**
Gómez Pardo, J. L. (*with* Năstăsescu, Constantin) Topological aspects of graded rings. **94k:16068**

Hübi, Reinhold A note on the Hochschild homology and cyclic homology of a topological algebra. (English summary) **94g:16010**
Jeremías López, A. (*with* López López, M. P.; Villanueva Nóvoa, E.) Gabriel filters in Grothendieck categories. (English summary) **94a:18010**
Kiriyak, L. L. *see* **Choban, M. M., 94e:54049**
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— Primary l-ideals in a class of f-rings. **94g:06028**
López López, M. P. *see* **Jeremías López, A.; et al., 94a:18010**
Ma, Jing Jing The unitability of 1-prime lattice-ordered rings with squares positive. (English summary) **94j:06021**
Năstăsescu, Constantin *see* **Gómez Pardo, J. L., 94k:16068**
Pyartli, S. A. A topological analogue of almost polycyclic groups and the problem of the extension of topologies. (Russian) **94i:22012**
Steinberg, Stuart A. Positive semidefinite forms over totally ordered domains. **94h:16063**
Vechtomov, E. M. On Gel'fand's and Kolmogorov's theorem on the maximal ideals of rings of continuous functions. (Russian) **94g:46057**
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16W99 None of the above, but in this section

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Chick, H. L. Quasi-division rings—some examples of quasiregular rings. (English summary) **94j:16019**
Kelarev, A. V. A sum of two locally nilpotent rings may be not nil. **94c:16025**
Xu, Ping Noncommutative Poisson algebras. **94m:58246**

16Yxx Generalizations {For nonassociative rings, see 17-xx.}

16Y30 Near-rings [see also 12K05]

Ashraf, Mohammad On structure and commutativity of certain periodic near rings. (English summary) **94g:16051**
Benini, A. (*with* Pellegrini Manara, Silvia) w-Jordan near-rings. I. (English summary) **94j:16077**
Bhavanari, Satyanarayana (*with* Guntupalli, Koteswara Rao) On a class modules and N-groups. **94k:16072**
Birkenmeier, Gary F. (*with* Heatherly, Henry; Lee, Enoch) Prime ideals in near-rings. (English summary) **94m:16049**
Booth, G. L. (*with* Groenewald, N. J.) Matrix Γ-near-rings. (English summary) **94g:16052**
Clay, James R. Circular planar nearrings with application. **94c:16058**
— Compound closed chains in circular planar nearrings. **94d:16043**
— (*with* Kautschitsch, Hermann) Near-rings generated by R-modules. (English summary) **94h:16081**
Fong, Yuen (*with* Veldsman, Stefan; Wiegandt, Richard) Radical theory in varieties of near-rings in which the constants form an ideal. (English summary) **94e:16052**
Fuchs, Peter Rudolf (*with* Maxson, Carl J.; van der Walt, A. P. J.; Kaarli, Kalle) Centralizer near-rings determined by PID-modules. II. (English summary) **94i:16021**
Giri, R. D. (*with* Modi, A. K.) On commutativity of near-rings. (Italian summary)
Groenewald, N. J. *see* **Booth, G. L., 94g:16052**
Guntupalli, Koteswara Rao *see* **Bhavanari, Satyanarayana, 94k:16072**
Heatherly, Henry (*with* Olivier, H.; Pilz, G.) H-integral near-rings. (English summary) **94g:16053**
— *see also* **Birkenmeier, Gary F.; et al., 94m:16049**
Kaarli, Kalle *see* **Fuchs, Peter Rudolf; et al., 94i:16021**
Kautschitsch, Hermann *see* **Clay, James R., 94h:16081**
Kirtadze, L. V. *see* **Usenko, V. M., 94i:16022**
Lee, Enoch *see* **Birkenmeier, Gary F.; et al., 94m:16049**
Liu, Yong Hul[1] Commutativity theorems for near-rings. (Chinese. English and Chinese summaries) **94h:16082**
Magill, K. D., Jr. (*with* Misra, Prabudh Ram) Homomorphisms of sandwich semigroups and sandwich near-rings. **94g:16054a**
— (*with* Misra, Prabudh Ram) Erratum: "Homomorphisms of sandwich semigroups and sandwich near-rings". **94g:16054b**
Maxson, Carl J. *see* **Fuchs, Peter Rudolf; et al., 94i:16021**
Misra, Prabudh Ram *see* **Magill, K. D., Jr., 94g:16054a** *and* **94g:16054b**
Modi, A. K. *see* **Giri, R. D.**
Mutter, Wolfgang Near-rings of homotopy classes of continuous functions. (English summary) **94m:16050**
Olivier, H. *see* **Heatherly, Henry; et al., 94g:16053**
Pellegrini Manara, Silvia *see* **Benini, A., 94j:16077**
Perić, Veselin (*with* Vuković, Veljko) Correction to the paper: "On nonassociative left near-rings with certain descending chain condition property" [Zb. Rad. No. 5 (1991), 5–12].
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Tamizh Chelvam, T. Bi-ideals and b-regular near-rings. (English summary) **94a:16080**
— Bi-regular near-rings. (English summary) **94f:16065**
— Associativity of isotopes of near-rings.
Usenko, V. M. (*with* Kirtadze, L. V.) Near-rings with orthodox idempotents. (Russian. English and Ukrainian summaries) **94i:16022**
— (*with* Kirtadze, L. V.) On a matrix construction in the theory of near-rings. (Russian. English and Ukrainian summaries)
Vasantha Kandasamy, W. B. Integral loop seminear rings. (English and Polish summaries)
Veldsman, Stefan To the abstract theory of radicals: a contribution from near-rings. **94h:16083**
— Varieties and radicals of near-rings. (English summary) **94i:16023**
— *see also* **Fong, Yuen; et al., 94e:16052**
Vuković, Veljko Some theorems on a local (nonassociative) near-ring. (English summary) **94j:16078**
— *see also* **Perić, Veselin**
van der Walt, A. P. J. *see* **Fuchs, Peter Rudolf; et al., 94i:16021**
Wang, Xue Kuan Derivations in prime near-rings. (English summary) **94h:16084**
Wei, Zong Xuan Conditions for a near-ring to be a near-division ring. (Chinese. English and Chinese summaries)
Wiegandt, Richard *see* **Fong, Yuen; et al., 94e:16052**
Yugandhar, K. A note on primitive distributively generated near-rings. (English summary) **94g:16055**

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Clay, James R. ★ Nearrings. **94b:16001**
— (*with* Kiechle, Hubert) Linear codes from planar nearrings and Möbius planes. (English summary) **94k:51006**
Fong, Yuen (*with* Wiegandt, Richard) Subdirect irreducibility and radicals. (English summary) **94g:17002**
Kiechle, Hubert *see* **Clay, James R., 94k:51006**
Mutter, Wolfgang Near-rings of continuous functions on compact abelian groups. (English summary) **94i:22015**
van Niekerk, J. S. *see* **de la Rosa, B.; et al., 94i:16010**
de la Rosa, B. (*with* van Niekerk, J. S.; Wiegandt, Richard) A concrete analysis of the radical concept. (English summary) **94i:16010**
Wiegandt, Richard *see* **Fong, Yuen, 94g:17002** *and* **de la Rosa, B.; et al., 94i:16010**
Zayed, Maher Primitive near-rings do not form an axiomatisable class. (English summary) **94j:03080**

16Y60 Semirings [see also 12K10]

Acharyulu, Gomatam V. S. Matrix representable so-rings. **94b:16048**
Ahsan, Javed (*with* Latif, Raja Mohammad; Shabir, M.) Representations of weakly regular semirings by sections in a presheaf. **94c:16059**
— (*with* Saifullah, K.; Khan, M. Farid) Fuzzy semirings. (English summary) **94j:16079**
— (*with* Shabir, M.) Semirings with projective ideals. (English summary) **94a:16081**
— Fully idempotent semirings. **94f:16066**
Alarcón, Francisco (*with* Anderson, D. D.) The lattice of ideals of a polynomial semiring. (English summary) **94h:16085**
Anderson, D. D. *see* **Alarcón, Francisco, 94h:16085**
Chermnykh, V. V. Representation of positive semirings by sections. (Russian) **94j:16080**
— Sheaf representations of semirings. (Russian) **94i:16024**
Dönges, Christoph On quasi-ideals of semirings. (English summary) **94k:16073**
Ghosh, Shamik A characterization of ring congruences on semirings. (English summary) **94k:16074**
Jiang, Zhong Lüe *see* **Zheng, Yu Mei; et al.**
Kepka, Tomáš Semirings whose additive endomorphisms are multiplicative. (English summary) **94g:16056**
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Latif, Raja Mohammad *see* **Ahsan, Javed; et al., 94c:16059**
Pondělíček, Bedřich Principal tolerance trivial inverse semirings. (English summary) **94j:16081**
Saifullah, K. *see* **Ahsan, Javed; et al., 94j:16079**
Shabir, M. *see* **Ahsan, Javed, 94a:16081** *and* **94c:16059**
Takahashi, Michihiro (*with* Wang, Hua Xiong) Injective semimodules over a 2-semiring. **94k:16075**
Wang, Hua Xiong Injective hulls of semimodules over additively-idempotent semirings. **94k:16076**
— *see also* **Takahashi, Michihiro, 94k:16075**
You, Song Fa *see* **Zheng, Yu Mei; et al.**
Zheng, Yu Mei (*with* You, Song Fa; Jiang, Zhong Lüe) A structure theorem for addition commutative cancellable semirings and its application. (Chinese. English and Chinese summaries)

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Bloom, Stephen L. (*with* Ésik, Zoltán) Equational axioms for regular sets. (English summary) **94f:08009**
Ésik, Zoltán *see* **Bloom, Stephen L., 94f:08009**
Karner, Georg On transductions of formal power series over complete semirings. **94b:68067**
Lesin, S. A. (*with* Samborskiĭ, S. N.) Spectra of compact endomorphisms. **94c:47047**
Samborskiĭ, S. N. (*with* Shpiz, G. B.) Convex sets in the semimodule of bounded functions. **94a:46110**
— (*with* Tarashchan, A. A.) The Fourier transform and semirings of Pareto sets. **94c:47107**
— *see also* **Lesin, S. A., 94c:47047**
Scully, Daniel J. Maximal rank-one spaces of matrices over chain semirings. II. $(\mathbf{u}, i)$-spaces. (English summary) **94b:15013**
Shpiz, G. B. *see* **Samborskiĭ, S. N., 94a:46110**
Shubin, M. A. Algebraic remarks on idempotent semirings and the kernel theorem in spaces of bounded functions. **94a:46111**
Tarashchan, A. A. *see* **Samborskiĭ, S. N., 94c:47107**
Vasantha Kandasamy, W. B. On loop semirings.
Weinert, Hanns Joachim (*with* Wiegandt, Richard) Complementary radical classes of proper semifields. (English summary) **94i:12005**
Wiegandt, Richard *see* **Weinert, Hanns Joachim, 94i:12005**

16Y99 None of the above, but in this section

Adhikari, N. C. *see* **Dutta, Tapan Kumar**[1]**, 94g:16057**

Balasubramanian, G. Anti-inverse algebras.
Bapat, M. S. *see* **Kumbhojkar, H. V., 94b:16049**
Chen, Hui A density theorem for generalized Γ-rings with an α-unit element. (Chinese. English and Chinese summaries) **94j:16082**
Chen, Qing Hua[2] Categories of graded Gamma-modules. (Chinese. English and Chinese summaries)
Chen, Wei Xin (*with* Zhang, Shou Chuan) The module theoretic characterization of special and supernilpotent radicals for Γ-rings. (English summary) **94f:16067**
Cheng, Wei Xin (*with* Zhang, Shou Chuan) Jacobson radicals and idempotent heart radicals of Γ-rings. (Chinese. English and Chinese summaries)
Dutta, Tapan Kumar[1] (*with* Adhikari, N. C.) On Γ-division ring. **94g:16057**
Groenewald, N. J. (*with* Olivier, W. A.) ∗-regularities of Γ-rings. (English summary) **94a:16082**
Kumbhojkar, H. V. (*with* Bapat, M. S.) On prime and primary fuzzy ideals and their radicals. (English summary) **94b:16049**
Matei, St. Über einige besondere numeroidale Strukturen. (Romanian summary) [On some special numeroidal structures] (*see* **94j:00024**)
Olivier, W. A. *see* **Groenewald, N. J., 94a:16082**
Paul, A. C. General radical for Γ-rings. (English summary)
Snyders, A. J. M. (*with* Veldsman, Stefan) Gamma-rings and multiplications on abelian groups. (English summary) **94a:16083**
— (*with* Veldsman, Stefan) Ideal extensions of Γ-rings. (English summary) **94a:16084**
Vasantha Kandasamy, W. B. Idempotents in group seminear rings. (English summary)
— Units in loop rings. (English summary) **94f:16068**
Veldsman, Stefan *see* **Snyders, A. J. M., 94a:16083** *and* **94a:16084**
Zhang, Shou Chuan *see* **Chen, Wei Xin, 94f:16067** *and* **Cheng, Wei Xin**

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Chen, Wei Xin Radicals determined by strong nilpotency of elements of Γ-rings. (Chinese. Chinese summary) **94j:16027**
Weinert, Hanns Joachim Generalized semigroups and algebras of right quotients. **94e:20093**

17–XX Nonassociative rings and algebras

17–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 17–01

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17–02 Research exposition (monographs, survey articles)

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McGovern, William M. *see* **Collingwood, David H., 94j:17001**
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(Drinfel'd, V. G.) *see* **Manin, Yu. I., (94d:01001)**
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17–04 Explicit machine computation and programs (not the theory of computation or programming)

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17–08 Computational methods

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17Axx General nonassociative rings

17A01 General theory

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17A05 Power-associative

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17A15 Noncommutative Jordan algebras

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17A50 Free algebras

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17A75 Composition algebras

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17A80 Valued algebras

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17A99 None of the above, but in this section

Dhoble, A. R. *see* **Giri, R. D.; et al.**
Feigelstock, Shalom E-associative rings. (English summary) **94c:17010**
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17Bxx Lie algebras {For Lie groups, see 22Exx.}

17B01 Identities, free Lie algebras

Bakhturin, Yu. A. (*with* Nabiev, S. Zh.) Automorphisms and derivations of abelian extensions of some Lie algebras. **94b:17008**
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— Varieties of solvable Lie algebras with a distributive lattice of subvarieties. (Russian. Russian summary) **94c:17012**
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Pikhtil'kov, S. A. On the use of a solvable radical in the theory of varieties of Lie algebras. (Russian) (*see* **94d:20001**)
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17B05 Structure theory

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17B10 Representations, algebraic theory (weights)

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Biane, Philippe Estimation asymptotique des multiplicités dans les puissances tensorielles d'un g-module. (English and French summaries) [Asymptotic estimates for the multiplicities in tensor powers of a g-module] **94a:17004**
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Cheng, Shun-Jen Representations of central extensions of differentiably simple Lie superalgebras. (English summary) **94e:17005**
Coleman, A. John (*with* Futornyi, V. M.) Stratified L-modules. (English summary) **94k:17010**
Dobrev, V. K. (*with* Sezgin, E.) Spectrum and character formulae of so(3, 2) unitary representations. (English summary) **94d:17008**
Donin, I. F. Decomposition of symmetric and exterior powers of the adjoint representation of $\mathfrak{gl}(n)$ in the unstable case. (Russian) **94c:17014**
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Bennani, Khalid Étude d'un module de Verma sur l'algèbre de contact. (English summary) [Study of a Verma module on the contact algebra] **94k:17043**
Benoit, Louis (*with* Saint-Aubin, Yvan) A pedagogical presentation of singular vectors. (English summary) **94c:17036**
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Boe, Brian D. A counterexample to the Gabber-Joseph conjecture. (English summary) **94a:22032**
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Shi, Zhiyong Existence and dimensionality of simple weight modules for quantum enveloping algebras. (English summary) **94e:17027**
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17B15 Representations, analytic theory

Mõseneder Frajria, Pierluigi A note on the continuation of Borel-de Siebenthal discrete series out of the canonical chamber. **94c:17016**

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Gyoja, Akihiko Local b-functions of prehomogeneous Lagrangians. **94j:32008**
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17B20 Simple, semisimple, reductive algebras (roots)

Abdukhalikov, K. S. Invariant integral lattices in Lie algebras of type A_{p^m-1}. (Russian. Russian summary) **94i:17015**
Allison, B. N. Lie algebras of type D_4 over number fields. (English summary) **94c:17017**
Angelopoulos, Eugénios (*with* Benayadi, Saïd) Construction d'algèbres de Lie sympathiques non semi-simples munies de produits scalaires invariants. (English and French summaries) [Construction of nonsemisimple sympathetic Lie algebras with invariant scalar products] **94f:17007**
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Chekalov, I. V. Primitive subalgebras of complex Lie algebras. I. Primitive subalgebras of the classical complex Lie algebras. (English summary) **94c:17018**
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Grélaud, Gérard *see* **Èlashvili, A. G., 94g:17014**
Neher, Erhard Generators and relations for 3-graded Lie algebras. **94b:17012**
Rudyĭ, A. N. Subalgebras of the algebras $\mathfrak{SU}(p,q)$ that are real forms of Lie algebras of type B_r. (Russian. English and Russian summaries) **94c:17019**
Shi, Jian Yi Some numeric results on root systems. (English summary) **94f:17008**
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17B45 Lie algebras of linear algebraic groups [see also 14Lxx and 20Gxx]

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17B55 Homological methods in Lie algebras

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17B60 Lie rings associated with other structures (associative, Jordan, etc.) [see also 15A30, 16W10, 17C40, 17C50]

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— Geometric representation of normal J-algebras of dimension 11 over $\mathbf{C}$. **94f:17023a**
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17B65 Infinite-dimensional Lie algebras [see also 22E65]

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17Cxx Jordan algebras (algebras, triples and pairs)

17C05 Identities and free Jordan structures

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Rotman, Joseph J. Projective planes, graphs, and simple algebras. (English summary) **94k:51010**
Walcher, Sebastian *see* **Gradl, Hans; et al., 94e:17001**

17C60 Division algebras

Items with secondary classifications in 17C60

Narayanan, K. S. (*with* Ramaswamy, V.) Gel'fand-Mazur theorem for alternative Banach triple systems. (English summary) **94h:46106**
Ramaswamy, V. *see* **Narayanan, K. S., 94h:46106**

17C65 Jordan structures on Banach spaces and algebras [see also 46H70, 46L70]

Loos, Ottmar (*with* Neher, Erhard) Associative and Jordan shift algebras. **94b:17055**
Neher, Erhard *see* **Loos, Ottmar, 94b:17055**

Items with secondary classifications in 17C65

Bouhya, Khaled (*with* Fernández López, Antonio[1]) Jordan-$*$-triples with minimal inner ideals and compact JB$*$-triples. **94k:46106**
Fernández López, Antonio[1] On annihilators in Jordan algebras. (English summary) **94c:17047**
— *see also* **Bouhya, Khaled, 94k:46106**
Galé, José E. Weakly compact homomorphisms in nonassociative algebras. **94f:46089**
Loos, Ottmar Properly algebraic and spectrum-finite ideals in Jordan systems. **94h:46075**
Mellon, Pauline Dual manifolds of JB*-triples of the form $C(X, U)$. (English summary) **94k:58011**
Narayanan, K. S. (*with* Ramaswamy, V.) Gel'fand-Mazur theorem for alternative Banach triple systems. (English summary) **94h:46106**
Nomura, Takaaki Manifold of primitive idempotents in a Jordan-Hilbert algebra. **94a:58010**
Pérez, J. (*with* Rico Romero, L.; Rodríguez-Palacios, Ángel) Full subalgebras of Jordan-Banach algebras and algebra norms on JB*-algebras. (English summary) **94j:46049**
Pestov, V. G. Universal arrows to forgetful functors from categories of topological algebra. (English summary) **94e:18003**
Ramaswamy, V. *see* **Narayanan, K. S., 94h:46106**
Rico Romero, L. *see* **Pérez, J.; et al., 94j:46049**
Rodríguez-Palacios, Ángel (*with* Villena Muñoz, A. R.) Centroid and extended centroid of JB*-algebras. (English summary) **94a:46101**
— *see also* **Pérez, J.; et al., 94j:46049**
Villena Muñoz, A. R. *see* **Rodríguez-Palacios, Ángel, 94a:46101**
Zahedani, H. Z. A Gel'fand-Neumark theorem for commutative semifinite rank J^*-algebras. **94g:46079**

17C70 Super structures

Items with secondary classifications in 17C70

Günaydin, Murat Generalized conformal and superconformal group actions and Jordan algebras. (English summary) **94c:17048**
Onishchik, A. L. On the rigidity of super-Grassmannians. (English summary) **94m:14069**

17C90 Applications to physics

Items with secondary classifications in 17C90

Borthwick, David (*with* Lesniewski, Andrzej; Upmeier, Harald) Nonperturbative deformation quantization of Cartan domains. (English summary) **94d:47065**
Ferreira, L. A. (*with* Gomes, J. F.; Teotônio Sobrinho, P.; Zimerman, A. H.) The Jordan structure of Lie and Kac-Moody algebras. (English summary) **94a:17022**
Gomes, J. F. *see* **Ferreira, L. A.; et al., 94a:17022**
Lesniewski, Andrzej *see* **Borthwick, David; et al., 94d:47065**
Teotônio Sobrinho, P. *see* **Ferreira, L. A.; et al., 94a:17022**
Upmeier, Harald *see* **Borthwick, David; et al., 94d:47065**
Zimerman, A. H. *see* **Ferreira, L. A.; et al., 94a:17022**

17C99 None of the above, but in this section

Anquela, José Angel On Herstein's theorems relating modularity in A and $A^{(+)}$. (English summary) **94k:17052**
Bouhya, Khaled Carence de dérivations dans les algèbres sans éléments nilpotents. [Lack of derivations in algebras without nilpotent elements]
Kayoya, Jean-Bosco Transformation de Kelvin sur une algèbre de Jordan. (English and French summaries) [Kelvin transform on a Jordan algebra] **94c:17049**

Items with secondary classifications in 17C99

Faraut, Jacques Fonctions de Legendre sur une algèbre de Jordan. (French summary) [Legendre functions on a Jordan algebra] **94e:33025**
(Kim, Jongsik) *see* **Zel'manov, E. I., 94c:16027**
Shandra, I. G. The spaces $V_n(K)$ and Jordan algebras. (Russian) **94k:53053**
Sokolov, V. V. *see* **Svinolupov, S. I., 94k:34020**
Svinolupov, S. I. (*with* Sokolov, V. V.) A generalization of a theorem of Lie, and Jordan tops. (Russian) **94k:34020**
Zel'manov, E. I. ★ Nil rings and periodic groups. **94c:16027**

17Dxx Other nonassociative rings and algebras

Items with secondary classifications in 17Dxx

Aringazin, A. K. (*with* Jannussis, A.; Lopez, Diego F.; Nishioka, M.; Veljanoski, B.) Addendum et errata: "Need for mathematical studies on Santilli's Lie-isotopic relativities" [Algebras Groups Geom. **7** (1990), no. 3, 211–300].
Jannussis, A. *see* **Aringazin, A. K.; et al.**
Lopez, Diego F. *see* **Aringazin, A. K.; et al.**
Nishioka, M. *see* **Aringazin, A. K.; et al.**
Veljanoski, B. *see* **Aringazin, A. K.; et al.**

17D05 Alternative rings

de Barros, Luiz G. X. On semisimple alternative loop algebras. (English summary) **94i:17035**
Elduque, Alberto (*with* Montaner, Fernando; Myung, Hyo Chul) Automorphisms and derivations in a class of Jordan and Malcev admissible algebras. **94k:17053**
Essannouni, H. (*with* Kaïdi, El Amin Mokhtar) Goldie's theorem for alternative rings. (English summary) **94g:17060**
Filippov, V. T. Decomposition of a variety of alternative algebras. (Russian) **94m:17032**
Kaïdi, El Amin Mokhtar *see* **Essannouni, H., 94g:17060**
Kleinfeld, Erwin Prime alternative rings without nilpotent elements revisited.
Laliena, J. A. Quasi-ideals in alternative rings. **94e:17045**
Montaner, Fernando *see* **Elduque, Alberto; et al., 94k:17053**
Myung, Hyo Chul *see* **Elduque, Alberto; et al., 94k:17053**

Items with secondary classifications in 17D05

Elduque, Alberto (*with* Myung, Hyo Chul) On flexible composition algebras. **94h:17001**
Jespers, Eric (*with* Leal, Guilherme) A characterization of the unit loop of the integral loop ring $\mathbf{Z}M_{16}(Q, 2)$. (English summary) **94a:20115**
Leal, Guilherme (*with* Polcino Milies, C.) Isomorphic group (and loop) algebras. **94a:16048**
— *see also* **Jespers, Eric, 94a:20115**
Myung, Hyo Chul *see* **Elduque, Alberto, 94h:17001**
Narayanan, K. S. (*with* Ramaswamy, V.) Gel'fand-Mazur theorem for alternative Banach triple systems. (English summary) **94h:46106**
Polcino Milies, C. *see* **Leal, Guilherme, 94a:16048**
Ramaswamy, V. *see* **Narayanan, K. S., 94h:46106**
Slin'ko, A. M. The radical of locally compact alternative and Jordan rings. **94j:17032**
Tumurbat, S. On nonhypersolvable radicals of not necessarily associative rings. **94j:17005**

17D10 Mal'cev (Mal'tsev) rings and algebras

Elduque, Alberto (*with* Myung, Hyo Chul) The reductive pair (B_3, G_2) and affine connections on S^7. (English summary) **94f:17029**
Micali, Artibano Algèbres de Malcev. [Mal'tsev algebras] (*see* **94h:00017**)
Myung, Hyo Chul *see* **Elduque, Alberto, 94f:17029**
Paal, Eugen Mal'tsev algebras and generalized Lie equations. (English summary) **94f:17030**
Taniguchi, Yoshiaki *see* **Yamaguti, Kiyosi, 94i:17036**
Yamaguti, Kiyosi (*with* Taniguchi, Yoshiaki) Birepresentations of the pairs of Mal'cev algebras. (English summary) **94i:17036**

Items with secondary classifications in 17D10

Albuquerque, Helena (*with* Elduque, Alberto) Malcev superalgebras with trivial nucleus. (English summary) **94f:17005**
Elduque, Alberto *see* **Albuquerque, Helena, 94f:17005**
Nagy, Péter T. Moufang loops and Malcev algebras. (English summary) **94h:20074**
Paal, Eugen Moufang loops and generalized Lie equations. (English, Russian and Estonian summaries) **94f:20136**

17D15 Right alternative rings

Kleinfeld, Margaret Semiprime right alternative rings with double commutators in the center. **94d:17039**
Paul, Yash Right alternative rings with commutators in the middle nucleus. (English summary) **94c:17050**

Items with secondary classifications in 17D15

Elduque, Alberto (*with* Myung, Hyo Chul) The compact Mal'cev algebra and torsion and curvature tensors of connections on S^7. **94j:53059**
Myung, Hyo Chul *see* **Elduque, Alberto, 94j:53059**

17D25 Lie-admissible algebras

Items with secondary classifications in 17D25

Bascoutas, S. *see* **Jannussis, A.; et al., 94c:81092**
Brodimas, G. *see* **Jannussis, A.; et al., 94c:81092**
Jannussis, A. (*with* Brodimas, G.; Bascoutas, S.) Lie-admissible Q-algebra and the Pauli exclusion principle. (English summary) **94c:81092**
— Quantum group and the Lie-admissible Q-algebra. (English summary) **94f:81073**

17D92 Genetic algebras

Andrade, Raúl (*with* Labra, Alicia) A note on baric algebras. (English summary) **94k:17054**
Costa, Roberto (*with* Guzzo, Henrique, Jr.) Indecomposable baric algebras. (English summary) **94a:17023**
González, Santos One-dimensional subalgebras of a Bernstein algebra. (Russian summary) **94d:17040**
— Quasi-isomorphisms of Bernstein algebras. (English summary) **94g:17061**
— (*with* Martínez López, Consuelo) Bernstein algebras with zero derivation algebra. (English summary) **94e:17046**
— (*with* Martínez López, Consuelo; Vicente, P.) Idempotent elements in a 2nd-order Bernstein algebra. (English summary) **94m:17033**
Guzzo, Henrique, Jr. *see* **Costa, Roberto, 94a:17023**
Holgate, Philip Biometric and chromosome algebras. **94c:17051**
— Algebras related to Penrose-Smith transformations. (English summary) **94d:17041**
Kumar, Mithilesh (*with* Singh, Bipin Bihari) A generalised Grassmann algebra. (English summary)
Labra, Alicia *see* **Andrade, Raúl, 94k:17054**
Martínez López, Consuelo Isomorphisms of Bernstein algebras. **94i:17037**
— *see also* **González, Santos, 94e:17046** *and* **94m:17033**
Neuburg, Michael (*with* Suazo, Avelino) Some Bernstein algebras. (Spanish. Spanish summary) **94d:17042**
Singh, Bipin Bihari *see* **Kumar, Mithilesh**
Suazo, Avelino *see* **Neuburg, Michael, 94d:17042**
Vicente, P. *see* **González, Santos; et al., 94m:17033**

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Alcalde, M. T. (*with* Burgueño, C.; Mallol, C.) Les Pol(n, m)-algèbres: identités polynômiales symétriques dans des algèbres. (English summary) [Pol(n, m)-algebras: symmetric polynomial identities in algebras] **94g:17001**
Burgueño, C. *see* **Alcalde, M. T.; et al., 94g:17001**
Gradl, Hans (*with* Walcher, Sebastian) On continuous time models in genetic and Bernstein algebras. (English summary) **94c:92012**
Mallol, C. *see* **Alcalde, M. T.; et al., 94g:17001**
Micali, Artibano (*with* Revoy, Philippe) Sur les algèbres de Lotka-Volterra. (English and French summaries) [On Lotka-Volterra algebras] **94f:17002**
Revoy, Philippe *see* **Micali, Artibano, 94f:17002**
Walcher, Sebastian *see* **Gradl, Hans, 94c:92012**

17D99 None of the above, but in this section

Kleinfeld, Erwin On rings with alternators in the commutative center. (English summary) **94k:17055**
Kuusk, Piret (*with* Örd, Jüri; Paal, Eugen) Geodesic multiplication and the theory of gravity. (English summary) **94k:17056**
Örd, Jüri *see* **Kuusk, Piret; et al., 94k:17056**
Paal, Eugen *see* **Kuusk, Piret; et al., 94k:17056**
Yen, Chêng Tê Rings with $(x, y, z) + (z, y, x)$ and (N, R) in the left nucleus. (English summary) **94e:17047**

Items with secondary classifications in 17D99

Gatelyuk, O. V. (*with* Kukin, G. P.) Algebraic characterization of algebras with a recursive basis in some varieties. (Russian. English and Estonian summaries) **94c:17044**
Kukin, G. P. *see* **Gatelyuk, O. V., 94c:17044**

18–XX Category theory, homological algebra

18–01 Instructional exposition (textbooks, tutorial papers, etc.)

McLarty, Colin ★ Elementary categories, elementary toposes. **94c:18001**

Items with secondary classifications in 18–01

Barnsley, Michael F. ★ Fractals everywhere. **94h:58101**
(Rising, Hawley, III) *see* **Barnsley, Michael F., 94h:58101**
Walters, R. F. C. ★ Categories and computer science. (English summary) **94i:68001**

18–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 18–02

Aguado Martín, F. ★ Construcción de álgebras en computación. (Spanish) [The construction of algebras in computing] **94g:18004**
Alajbegović, J. (*with* Močkoř, Jiří) ★ Approximation theorems in commutative algebra. (English summary) **94d:13001**
Močkoř, Jiří *see* **Alajbegović, J., 94d:13001**

18Axx General theory of categories and functors

18A05 Definitions, generalizations

Hoofman, Raymond The theory of semi-functors. (English summary) **94e:18001**

Items with secondary classifications in 18A05

Arnold, David M. (*with* Dugas, Manfred) Block rigid almost completely decomposable groups and lattices over multiple pullback rings. (English summary) **94f:20102**
Baran, Mehmet Separation properties in category of stack convergence spaces. (English and Turkish summaries) **94a:54001**
Dugas, Manfred *see* **Arnold, David M., 94f:20102**

18A10 Graphs, diagram schemes, precategories, neocategories [see also 20Lxx]

Items with secondary classifications in 18A10

Baldinger, R. (*with* McCammond, J.) Gaps between connected finite graphs. **94c:05069**
Burroni, Albert Higher-dimensional word problems with applications to equational logic. (English summary) **94m:03070**
McCammond, J. *see* **Baldinger, R., 94c:05069**

18A15 Foundations, relations to logic and deductive systems [see also 03–XX]

Rosenthal, Kimmo I. Linear indexed quantales and quantalic hyperdoctrines. **94a:18001**

Items with secondary classifications in 18A15

Blute, Richard Linear logic, coherence and dinaturality. (English summary) **94h:03119**
Rosenthal, Kimmo I. A note on categories enriched in quantaloids and modal and temporal logic. (French summary) **94j:03132**

18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms, factorization (bicategories)

Dikranjan, Dikran (*with* Giuli, E.) Epis in categories of convergence spaces. **94c:18002**
Giuli, E. *see* **Dikranjan, Dikran, 94c:18002**
Korostenski, Mareli (*with* Tholen, Walter) Factorization systems as Eilenberg-Moore algebras. (English summary) **94a:18002**
Liu, Guang Yun Kernels and cokernels of morphisms in a category φ with zero object. (Chinese. English and Chinese summaries)
Reiterman, Jan (*with* Sobral, Maria Manuela; Tholen, Walter) Composites of effective descent maps. (English and French summaries) **94e:18002**
Sobral, Maria Manuela *see* **Reiterman, Jan; et al., 94e:18002**
Tholen, Walter *see* **Korostenski, Mareli, 94a:18002** *and* **Reiterman, Jan; et al., 94e:18002**

Items with secondary classifications in 18A20

Burmeister, Peter Tools for a theory of partial algebras. **94g:08005**
Chen, Xiang Dong On binary coproducts of frames. (English summary) **94j:06011**
Cury, F. Complétion et complétude selon H. Andréka et I. Németi. [Completion and completeness according to H. Andréka and I. Németi] **94f:18006**
Lord, Harriet Factorization, diagonal separation, and disconnectedness. (English summary) **94h:18002**
Normak, Peeter Wreath product functor of acts. (English and Estonian summaries) **94c:20111**

Uspenskiĭ, V. V. The solution of the epimorphism problem for Hausdorff topological groups. **94m:22003**

18A22 Special properties of functors (faithful, full, etc.)

Lambek, J. Least fixpoints of endofunctors of Cartesian closed categories. (English summary) **94h:18001**

Items with secondary classifications in 18A22

Jeon, Won-Kee A duality for contravariant functors on the category Ban. **94a:46104**
Trnková, Věra Universal concrete categories and functors. (French summary) **94h:18005**

18A23 Natural morphisms, dinatural morphisms

Items with secondary classifications in 18A23

Bekes, Robert A. (*with* Hilton, Peter John) Induction and restriction as adjoint functors on representations of locally compact groups. (English summary) **94c:22009**
Hilton, Peter John *see* **Bekes, Robert A., 94c:22009**

18A25 Functor categories, comma categories

Chen, Huan Gen The categories Fun, Nat and Adi. (Chinese. English summary) **94a:18003**

Items with secondary classifications in 18A25

Tambara, D. On multiplicative transfer. **94a:19002**

18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)

Börger, Reinhard (*with* Tholen, Walter; Tozzi, Anna) Lexicographic sums and fibre-faithful maps. (English summary) **94m:18001**
Cockett, J. Robin B. Introduction to distributive categories. (English summary) **94m:18002**
Mizoguchi, Yoshihiro A graph structure over the category of sets and partial functions. (French summary) **94d:18001**
Tholen, Walter *see* **Börger, Reinhard; et al., 94m:18001**
Tozzi, Anna *see* **Börger, Reinhard; et al., 94m:18001**

Items with secondary classifications in 18A30

Banaschewski, Bernhard (*with* Pultr, Aleš) Distributive algebras in linear categories. **94f:18007**
Burmeister, Peter (*with* Wojdyło, Bolesław) The meaning of basic category theoretical notions in some categories of partial algebras. II. Products and coproducts. **94c:08004**
Chen, Xiang Dong On binary coproducts of frames. (English summary) **94j:06011**
Johnstone, P. T. Fibrations and partial products in a 2-category. (English summary) **94i:18007**
Kelly, G. M. (*with* Lack, Stephen; Walters, R. F. C.) Coinverters and categories of fractions for categories with structure. (English summary) **94k:18012**
Lack, Stephen *see* **Kelly, G. M.; et al., 94k:18012**
Lončar, Ivan Hyperspaces of the inverse limit space. (English and Serbo-Croatian summaries) **94j:54006**
Lord, Harriet Factorization, diagonal separation, and disconnectedness. (English summary) **94h:18002**
Peschke, Georg (*with* Symonds, Peter) Pro-torsion completions of abelian groups. (English summary) **94g:20077**
Pultr, Aleš *see* **Banaschewski, Bernhard, 94f:18007**
Symonds, Peter *see* **Peschke, Georg, 94g:20077**
Walters, R. F. C. *see* **Kelly, G. M.; et al., 94k:18012**
Wojdyło, Bolesław *see* **Burmeister, Peter, 94c:08004**

18A32 Factorization of morphisms (via images, coimages, dominions, codominions), substructures, quotient structures, congruences, amalgams

Clementino, Maria Manuel T_0- and T_1-reflections. (English summary) **94d:18002**
Lord, Harriet Factorization, diagonal separation, and disconnectedness. (English summary) **94h:18002**
Porst, Hans-Eberhard The Linton theorem revisited. (French summary) **94m:18003**

Items with secondary classifications in 18A32

Adámek, Jiří (*with* Reiterman, Jan) The category of uniform spaces as a completion of the category of metric spaces. (English summary) **94m:18004**
Börger, Reinhard (*with* Tholen, Walter; Tozzi, Anna) Lexicographic sums and fibre-faithful maps. (English summary) **94m:18001**
Carboni, Aurelio (*with* Mantovani, Sandra) An elementary characterization of categories of separated objects. (English summary) **94k:18013**
Korostenski, Mareli (*with* Tholen, Walter) Factorization systems as Eilenberg-Moore algebras. (English summary) **94a:18002**
Mantovani, Sandra *see* **Carboni, Aurelio, 94k:18013**
Reiterman, Jan *see* **Adámek, Jiří, 94m:18004**
Schröder, Joachim Large sources and closure operators in topological constructs. (English summary) **94h:18007**
Tholen, Walter *see* **Korostenski, Mareli, 94a:18002** *and* **Börger, Reinhard; et al., 94m:18001**
Tozzi, Anna *see* **Börger, Reinhard; et al., 94m:18001**

18A35 Categories admitting limits (complete categories), functors commuting with limits, continuous functors, completions

Adámek, Jiří (*with* Reiterman, Jan) The category of uniform spaces as a completion of the category of metric spaces. (English summary) **94m:18004**
Reiterman, Jan *see* **Adámek, Jiří, 94m:18004**

Items with secondary classifications in 18A35

Cockett, J. Robin B. (*with* Spencer, Dwight) Strong categorical datatypes. I. (English summary) **94a:18008**
Kelly, G. M. (*with* Lack, Stephen; Walters, R. F. C.) Coinverters and categories of fractions for categories with structure. (English summary) **94k:18012**
Lack, Stephen *see* **Kelly, G. M.; et al., 94k:18012**
Oda, Nobuyuki Pairings in categories. (English summary) **94k:55028**
Spencer, Dwight *see* **Cockett, J. Robin B., 94a:18008**
Walters, R. F. C. *see* **Kelly, G. M.; et al., 94k:18012**

18A40 Adjoint functors (representable functors, universal constructions, reflective subcategories, reflections, etc.), constructions of adjoints (Kan extensions, etc.)

Gentle, Ronald (*with* Todorov, Gordana) Approximations, adjoint functors and torsion theories. (English summary) **94h:18003**
— (*with* Todorov, Gordana) Approximations, adjoint functors and torsion theories. (English summary) (*see* **94j:16002**)
Huber, Annette Calculation of derived functors via Ind-categories. (English summary) **94i:18001**
Johnson, Michael Sterling James (*with* Walters, R. F. C.) Algebra objects and algebra families for finite limit theories. **94d:18003**
Joyal, André (*with* Street, Ross) Pullbacks equivalent to pseudopullbacks. (French summary) **94a:18004**
Pestov, V. G. Universal arrows to forgetful functors from categories of topological algebra. (English summary) **94e:18003**
Ro, Jae Chan On the adjoint situations and reflective subcategories. **94c:18003**
Skula, Ladislav Maximal reflectivity preserving subextensions. (English summary) **94i:18002**
Street, Ross *see* **Joyal, André, 94a:18004**
Todorov, Gordana *see* **Gentle, Ronald, 94h:18003** *and* **(94j:16002)**
Vajner, Vaclav The category of complete Boolean algebras is not an intersection of reflective subcategories of the category of frames. (English summary) **94k:18001**
Walters, R. F. C. *see* **Johnson, Michael Sterling James, 94d:18003**

Items with secondary classifications in 18A40

Brümmer, G. C. L. Completions of functorial topological structures. **94c:54019**
Castellini, Gabriele (*with* Koslowski, J.; Strecker, George E.) Categorical closure operators via Galois connections. **94e:06004**
Chen, Huan Gen The categories Fun, Nat and Adi. (Chinese. English summary) **94a:18003**
Clementino, Maria Manuel T_0- and T_1-reflections. (English summary) **94d:18002**
— Hausdorff separation in categories. (English summary) **94m:18005**
Cockett, J. Robin B. (*with* Spencer, Dwight) Strong categorical datatypes. I. (English summary) **94a:18008**
Davey, Brian A. Duality theory on ten dollars a day. (English summary) **94m:08001**
Herrlich, Horst (*with* Hušek, Miroslav) Some open categorical problems in Top. (English summary) **94g:54008**
— Compact T_0-spaces and T_0-compactifications. (English summary) **94m:54065**
— Almost reflective subcategories of Top. (English summary) **94a:18005**
Hušek, Miroslav *see* **Herrlich, Horst, 94g:54008**
Jay, C. Barry Modelling reduction in confluent categories. (English summary) **94h:68107**
Kelly, G. M. (*with* Lack, Stephen) Finite-product-preserving functors, Kan extensions and strongly-finitary 2-monads. (English summary) **94k:18009**
Koslowski, J. *see* **Castellini, Gabriele; et al., 94e:06004**
Lack, Stephen *see* **Kelly, G. M., 94k:18009**
Pacati, C. Compactness defined by an epireflector. (Italian summary) **94b:54034**
Ploščica, Miroslav A duality for isotropic median algebras. (English summary) **94e:08005**
Porst, Hans-Eberhard The Linton theorem revisited. (French summary) **94m:18003**
Spencer, Dwight *see* **Cockett, J. Robin B., 94a:18008**
Strecker, George E. *see* **Castellini, Gabriele; et al., 94e:06004**

18A99 None of the above, but in this section

Geanău, M. Adjoint polyfunctors. I. (English and Romanian summaries)
Hu, Hongde Free exact completions of weak-Lex categories. (English summary) **94i:18003**
Li, Tao Sheng The Moore-Penrose inverses of morphisms with (epic, monic) factorizations. (Chinese. Chinese summary) **94i:18004**
Shul'geifer, E. G. On the projectivity of free objects. (Russian) **94j:18001**
Zangurashvili, D. T. On some categorical algebraic properties of functor categories. (Russian and Georgian summaries) **94j:18002**
Zhang, Jing Fen The Moore-Penrose inverses of products and sums of morphisms. (Chinese. English and Chinese summaries)
Zhuang, Wa Jin Some properties of the minus partial order on the set of morphisms of a category. (Chinese. English and Chinese summaries)

Items with secondary classifications in 18A99

Freyd, Peter J. Structural polymorphism. **94k:68126**
Lawvere, F. William Categories of space and of quantity. **94e:00007**
Leguizamón, Carlos A. The periodic continuous effect in terms of the algebraic relational theory. (English summary) **94g:92001**

18Bxx Special categories

18B05 Category of sets, characterizations [see also 03–XX]

Burgin, M. S. Compositions of concrete sets in categories. (Russian) **94d:18004**
Coulon, Jean-Louis (*with* Coulon, Josette; Höhle, Ulrich) Injectivité dans la catégorie des ensembles fortement M-valués complets. (English summary) [Injectivity in the category of complete strongly M-valued sets] **94b:18001**
Coulon, Josette *see* **Coulon, Jean-Louis; et al., 94b:18001**
Höhle, Ulrich *see* **Coulon, Jean-Louis; et al., 94b:18001**

18B10 Category of relations, additive relations

Alagić, Mara Relations with I-structure in categories with pullbacks. (English summary) **94h:18004**

Items with secondary classifications in 18B10

Mizoguchi, Yoshihiro A graph structure over the category of sets and partial functions. (French summary) **94d:18001**

18B15 Embedding theorems, universal categories [see also 18E20]

Makai, E., Jr. The full embeddings of the categories of uniform spaces, proximity spaces and related categories into themselves and each other. II. **94c:18004**
Trnková, Věra Universal concrete categories and functors. (French summary) **94h:18005**

Items with secondary classifications in 18B15

Burgin, M. S. Compositions of concrete sets in categories. (Russian) **94d:18004**
Cockett, J. Robin B. Introduction to distributive categories. (English summary) **94m:18002**
Obtułowicz, Adam Algebra of constructions. II. An algebraic approach to Martin-Löf type theory and the calculus of constructions. (English summary) **94b:68076**
Schauerte, A. On the MacNeille completion of the category of partially ordered topological spaces. (English summary) **94h:54041**

18B20 Categories of machines, automata, operative categories [see also 03D05, 68Qxx]

Mironov, A. M. Canonical realization of the partial response morphism in the class of decomposable systems. (Russian) **94f:18001**

Items with secondary classifications in 18B20

Bianchini, Caterina (*with* Sorbi, Andrea) Reducibility in some categories of partial recursive operators. (English summary) **94j:03095**
Corradini, Andrea (*with* Montanari, Ugo) An algebraic semantics for structured transition systems and its application to logic programs. (English summary) **94a:68082**
Mac Lane, Saunders (*with* Moerdijk, Ieke) Reals and forcing with an elementary topos. (English summary) **94h:03133**
Moerdijk, Ieke *see* **Mac Lane, Saunders, 94h:03133**
Montanari, Ugo *see* **Corradini, Andrea, 94a:68082**
Sorbi, Andrea *see* **Bianchini, Caterina, 94j:03095**

18B25 Topoi [see also 03G30]

Bénabou, Jean (*with* Loiseau, Bruno) Orbits and monoids in a topos. (English summary) **94k:18002**
Druck, Iole F. Un modèle de filtres pour l'analyse réelle synthétique. (French summary) [A model of filters for synthetic real analysis] **94g:18001**
Joyal, André (*with* Tierney, Myles) Classifying spaces for sheaves of simplicial groupoids. (English summary) **94i:18005**
Loiseau, Bruno *see* **Bénabou, Jean, 94k:18002**
Moerdijk, Ieke Espace classifiant, topos classifiant et ordres augmentés. (English and French summaries) [Classifying spaces, classifying topoi and augmented orders] **94d:18005**
Pedicchio, M. C. On Grothendieck quasi-topoi. **94c:18005**
Tierney, Myles *see* **Joyal, André, 94i:18005**

Items with secondary classifications in 18B25

Bagchi, Atish De Morgan's law and related identities in classifying topoi. (English summary) **94h:03069**
Bonenfant, P. (*with* Nel, Louis Daniel[1]) Categorical differentiation theory and Cauchy continuity. (English summary) **94j:54011**
Hu, Hongde Dualities for accessible categories. (English summary) **94b:03103**
Johnstone, P. T. Partial products, bagdomains and hyperlocal toposes. (*see* **93d:68001**)
— Fibrations and partial products in a 2-category. (English summary) **94i:18007**
Lee, E. Stanley *see* **Yuan, Xue Hai, 94g:03052**
Makkai, Michael Duality and definability in first order logic. (English summary) **94b:03104**
McLarty, Colin ★ Elementary categories, elementary toposes. **94c:18001**
Monro, G. P. Logic, sheaves, and factorization systems. **94k:03082**
Nel, Louis Daniel[1] *see* **Bonenfant, P., 94j:54011**
Wraith, Gavin C. Using the generic interval. (French summary) **94j:06018**
Yuan, Xue Hai (*with* Lee, E. Stanley) Categorical analysis of logic operators on fuzzy sets. (English summary) **94g:03052**

18B30 Categories of topological spaces and continuous mappings [see also 54–XX]

Bentley, H. L. (*with* Lowen-Colebunders, E.) The Cartesian closed topological hull of the category of completely regular filterspaces. (French summary) **94c:18006a**
— (*with* Lowen-Colebunders, E.) Corrections to the paper: "The Cartesian closed topological hull of the category of completely regular filterspaces". **94c:18006b**
Clementino, Maria Manuel Hausdorff separation in categories. (English summary) **94m:18005**
Herrlich, Horst Almost reflective subcategories of Top. (English summary) **94a:18005**
Leseberg, D. Filterformities and Cartesian closedness. **94f:18002**
Lowen-Colebunders, E. *see* **Bentley, H. L., 94c:18006a** *and* **94c:18006b**
Luna Torres, Joaquín The category Adj in category-theoretic topology. (Spanish)
Matier, Julie (*with* McMaster, T. Brian M.) Iteration of the "anti" operation in ordered topological spaces and in other categorical contexts. (Italian summary) **94g:18002**
McMaster, T. Brian M. *see* **Matier, Julie, 94g:18002**
Oostra V., Arnold Initial structures. (Spanish) **94k:18003**
Paseka, Jan Products in the category of locales: which properties are preserved? (English summary) **94d:18006**
Pikhurko, O. B. (*with* Zarichnyĭ, M. M.) On lifting of functors to the Eilenberg-Moore category of the triple generated by the functor C_pC_p. (English and Ukrainian summaries) **94c:18007**
Preuß, Gerhard Cauchy spaces and generalizations. (English summary) **94h:18006**
Pultr, Aleš (*with* Tozzi, Anna) Equationally closed subframes and representation of quotient spaces. (French summary) **94f:18003**
Schröder, Joachim Large sources and closure operators in topological constructs. (English summary) **94h:18007**
Tian, Xiao Ming (*with* Wang, Ge Ping) Strong sober spaces and a theorem on equivalence of categories. (Chinese. English and Chinese summaries)
Tozzi, Anna *see* **Pultr, Aleš, 94f:18003**
Vajner, Vaclav Model-theoretic characterisations of convenience properties in topological categories. (French summary) **94f:18004**
Wang, Ge Ping *see* **Tian, Xiao Ming**
Zarichnyĭ, M. M. *see* **Pikhurko, O. B., 94c:18007**

Items with secondary classifications in 18B30

Alderton, Ian W. (*with* Schwarz, Friedhelm) The extensional topological hull of the category of Cauchy spaces. (English summary) **94d:54035**
— (*with* Schwarz, Friedhelm) Cartesian closed extensions of the category of uniform spaces. (English summary) **94m:54072**
Bentley, H. L. (*with* Herrlich, Horst) Compactness = completeness ∩ total boundedness—a natural example of a nonreflective intersection of reflective subcategories. (English summary) **94b:54032**
Börger, Reinhard (*with* Tholen, Walter; Tozzi, Anna) Lexicographic sums and fibre-faithful maps. (English summary) **94m:18001**
Borubaev, A. A. Projective uniform spaces. **94j:54012**
Cagliari, Francesca Cartesian objects and exponentiable morphisms in topology. **94a:54039**
Chatyrko, V. A. Covariant functors and dimensional properties of infinite-dimensional spaces. **94d:54072**
Clementino, Maria Manuel T_0- and T_1-reflections. (English summary) **94d:18002**
Deák, J. A common topological supercategory for merotopies and syntopogenous structures. **94m:54028**
Dikranjan, Dikran (*with* Giuli, E.) Epis in categories of convergence spaces. **94c:18002**
Gähler, Werner Monadic topology—a new concept of generalized topology. (English summary) **94d:54003**
Gehrke, Mai The order structure of Stone spaces and the T_D-separation axiom. **94c:54038**
Giuli, E. *see* **Dikranjan, Dikran, 94c:18002**
Herrlich, Horst *see* **Bentley, H. L., 94b:54032**
Ivanov, A. V. Mixers, functors and soft mappings. (Russian) **94m:54045**
Kent, D. C. (*with* Rath, Nandita) Filter spaces. (English summary) **94k:54054**
Künzi, Hans-Peter A. Strongly zero-dimensional bispaces. (English summary) **94b:54033**
Leseberg, D. Superconvergence spaces and related topics. **94c:54020**
Lord, Harriet Factorizations and disconnectedness. **94d:54036**
Lowen, Robert (*with* Robeys, K.) Compactifications of products of metric spaces and their relations to Čech-Stone and Smirnov compactifications. (English summary) **94m:54063**
Lowen-Colebunders, E. (*with* Sonck, G.) Exponential objects and Cartesian closedness in the construct Prtop. (English summary) **94m:54029**
Mishra, S. P. *see* **Srivastava, Arun Kumar[2], 94d:54029**
Raghavan, T. G. On the category of nearly paracompact spaces. (English summary) **94b:54069**
Rath, Nandita *see* **Kent, D. C., 94k:54054**
Robeys, K. *see* **Lowen, Robert, 94m:54063**
Schauerte, A. On the MacNeille completion of the category of partially ordered topological spaces. (English summary) **94h:54041**
Schwarz, Friedhelm *see* **Alderton, Ian W., 94d:54035** *and* **94m:54072**
Sonck, G. *see* **Lowen-Colebunders, E., 94m:54029**
Srivastava, Arun Kumar[2] (*with* Mishra, S. P.) Epis and injectives in FTS_0. (English summary) **94d:54029**
Tholen, Walter *see* **Börger, Reinhard; et al., 94m:18001**
Tozzi, Anna *see* **Börger, Reinhard; et al., 94m:18001**
Vojtáš, Peter Topological cardinal invariants and the Galois-Tukey category. (English summary) **94b:54006**

18B35 Preorders, orders and lattices (viewed as categories) [see also 06–XX]

Brown, Carolyn (*with* Gurr, Doug) A representation theorem for quantales. (English summary) **94a:18006**
Edalat, Abbas (*with* Smyth, Michael B.) Information categories. (English summary) **94k:18004**
Gurr, Doug *see* **Brown, Carolyn, 94a:18006**
Smyth, Michael B. *see* **Edalat, Abbas, 94k:18004**

Items with secondary classifications in 18B35

Ball, Richard N. (*with* Hager, Anthony W.) Algebraic extensions of an Archimedean lattice-

ordered group. I. (English summary) **94a:06032**
Edalat, Abbas (*with* Smyth, Michael B.) I-categories as a framework for solving domain equations. (English summary) **94d:18013**
Ernė, Marcel Algebraic ordered sets and their generalizations. (English summary) **94i:06007**
Fletcher, Peter (*with* Hunsaker, W. N.; Lindgren, W.) Totally bounded frame quasi-uniformities. (English summary) **94i:54052**
Hager, Anthony W. *see* **Ball, Richard N., 94a:06032**
Hunsaker, W. N. *see* **Fletcher, Peter; et al., 94i:54052**
Isbell, John Corrections to: "First steps in descriptive theory of locales" [Trans. Amer. Math. Soc. **327** (1991), no. 1, 353–371; MR 92b:54078]. **94c:54071**
Lindgren, W. *see* **Fletcher, Peter; et al., 94i:54052**
Rosenthal, Kimmo I. Linear indexed quantales and quantalic hyperdoctrines. **94a:18001**
Smyth, Michael B. *see* **Edalat, Abbas, 94d:18013**

18B40 Groupoids, semigroupoids, semigroups, groups (viewed as categories) [see also 20Axx, 20Lxx, 20Mxx]

Bourn, Dominique Low-dimensional geometry of the notion of choice. (English summary) **94a:18007**
Gordon, Robert Crossed modules as G-categories. (French summary) **94k:18005**

Items with secondary classifications in 18B40

Baldinger, R. (*with* McCammond, J.) Gaps between connected finite graphs. **94c:05069**
Libermann, Paulette On symplectic and contact groupoids. (English summary) **94k:58159**
McCammond, J. *see* **Baldinger, R., 94c:05069**
Moerdijk, Ieke (*with* Svensson, Jan-Alve) Algebraic classification of equivariant homotopy 2-types. I. (English summary) **94j:55013**
Svensson, Jan-Alve *see* **Moerdijk, Ieke, 94j:55013**

18B99 None of the above, but in this section

Baranga, Andrei Metric spaces as categories. (English summary) **94k:18006**
Barr, Michael Terminal coalgebras in well-founded set theory. (English summary) **94m:18006a**
— Additions and corrections to: "Terminal coalgebras in well-founded set theory". (English summary) **94m:18006b**
Egorova, D. P. Categories of bins. (Russian) **94b:18002**
Frič, Roman (*with* Hušek, Miroslav; Koutník, Václav) Sequential groups, k-groups and other categories of continuous algebras. **94f:18005**
Gardiner, P. H. B. (*with* Martin, Clare; de Moor, Oege) An algebraic construction of predicate transformers. (English summary) **94i:18006**
Hager, Anthony W. (*with* Martinez, Jorge[2]) Functorial rings of quotients. I. (English summary) **94k:18007**
Hušek, Miroslav *see* **Frič, Roman; et al., 94f:18005**
Koutník, Václav *see* **Frič, Roman; et al., 94f:18005**
Martin, Clare *see* **Gardiner, P. H. B.; et al., 94i:18006**
Martinez, Jorge[2] *see* **Hager, Anthony W., 94k:18007**
de Moor, Oege *see* **Gardiner, P. H. B.; et al., 94i:18006**
Rajan, Dayanand S. The equations $D^kY = X^n$ in combinatorial species. (English summary) **94e:18004**
Zhang, Guo-Qiang Some monoidal closed categories of stable domains and event structures. (English summary) **94d:18007**

Items with secondary classifications in 18B99

Amo, F. Alonso *see* **Freire Nistal, Jose L.; et al., 94g:68072**
Anderson, Frank W. (*with* Fuller, Kent R.) ★ Rings and categories of modules. **94i:16001**
Banaschewski, Bernhard On the injectivity of Boolean algebras. (English summary) **94m:06013**
Baran, Mehmet The notion of closedness in topological categories. (English summary) **94i:18008**
Droste, Manfred (*with* Göbel, Rüdiger) Universal domains and the amalgamation property. (English summary) **94k:68125**
Freire Nistal, Jose L. (*with* Amo, F. Alonso; Martín, F. Aguado) On the naturality of the iteration and recursive specifications. (English summary) **94g:68072**
Fuller, Kent R. *see* **Anderson, Frank W., 94i:16001**
Gardner, B. J. Strongly hereditary strict radicals and quotient categories of commutative rings. **94m:13001**
Gilmore, Paul C. (*with* Tsiknis, George K.) A logic for category theory. (English summary) **94b:03093**
Göbel, Rüdiger *see* **Droste, Manfred, 94k:68125**
Hébert, Michel Sur les opérations partielles implicites et leur relation avec la surjectivité des épimorphismes. (English summary) [Implicit partial operations and their relation to surjectivity of epimorphisms] **94f:08007**
Isbell, John Some problems in descriptive locale theory. (English summary) **94a:54091**
Iwata, Keiji (*with* Shiga, Kiyoshi; Takeuchi, Shigeru) Category of CR vector spaces. (English summary) **94h:32031**
Jay, C. Barry Tail recursion through universal invariants. (English summary) **94g:68079**
Joubert, S. V. Categorically compact rings and modules. (English summary) **94f:17004**
Kassel, Christian Invariants des nœuds, catégories tensorielles et groupes quantiques. [Invariants for knots, tensor categories and quantum groups] **94d:57017**
Lambek, J. Least fixpoints of endofunctors of Cartesian closed categories. (English summary) **94h:18001**
Liu, Yu Ren A functor on the category ${}_RM_n^l$. (Chinese. English summary)
Martín, F. Aguado *see* **Freire Nistal, Jose L.; et al., 94g:68072**
de Moor, Oege Categories, relations and dynamic programming. **94k:90140**
Mukund, Madhavan Petri nets and step transition systems. (English summary) **94h:68174**
Nel, Louis Daniel[1] Effective categories of complete separated spaces. **94h:54011**
Rosický, Jiří Models of Horn theories revisited. (English summary) **94m:03057**
Rozenberg, S. M. Specialized relation algebras and Halmos algebras. (Russian. Russian summary) **94i:03121**
Shiga, Kiyoshi *see* **Iwata, Keiji; et al., 94h:32031**
Smyth, Michael B. I-categories and duality. **94k:68139**
Stroppel, Markus A categorical glimpse at the reconstruction of geometries. (English summary) **94c:51036**
Takeuchi, Shigeru *see* **Iwata, Keiji; et al., 94h:32031**
Trofimov, A. N. Investigation of Petri nets by means of category theory. (Russian. Russian summary) **94b:68091**
Tsiknis, George K. *see* **Gilmore, Paul C., 94b:03093**
Volkov, N. D. On the equivalence of the categories of Halmos algebras and relation algebras. (Russian. Russian summary) **94h:03126**
Wang, Pei Zhuang *see* **Yuan, Xue Hai, 94k:04002**
Yuan, Xue Hai (*with* Wang, Pei Zhuang) Some mathematical structures in factor spaces. (Chinese. English and Chinese summaries) **94k:04002**
Zhang, Guo-Qiang Disjunctive systems and L-domains. (English summary) **94i:68163**

18Cxx Categories and algebraic theories

18C05 Equational categories [see also 03C05, 08C05]

Items with secondary classifications in 18C05

Banaschewski, Bernhard (*with* Pultr, Aleš) Distributive algebras in linear categories. **94f:18007**
Bargenda, H. W. (*with* Brink, Chris; Vajner, Vaclav) Categorical aspects of power algebras. (English summary) **94g:08012**
Brink, Chris *see* **Bargenda, H. W.; et al., 94g:08012**
Herrlich, Horst On the failure of Birkhoff's theorem for locally small based equational categories of algebras. (French summary) **94m:08005**
Pelletier, Joan Wick (*with* Rosický, Jiří) On the equational theory of C^*-algebras. **94m:46115**
Pultr, Aleš *see* **Banaschewski, Bernhard, 94f:18007**
Rosický, Jiří *see* **Pelletier, Joan Wick, 94m:46115**
Słomiński, Józef On the satisfiabilities and varieties for abstract algebras induced by the cones and functor dynamics. (English summary) **94m:08007**
Vajner, Vaclav *see* **Bargenda, H. W.; et al., 94g:08012**

18C10 Theories (e.g. algebraic theories), structure, and semantics [see also 03G30]

Bloom, Stephen L. (*with* Ésik, Zoltán) Matrix and matricial iteration theories. I, II. (English summary) **94h:18008**
Ésik, Zoltán *see* **Bloom, Stephen L., 94h:18008**
Henry, C. Propriétés de permanence et existence de réalisations minimales pour les algèbres multisortes. (French summary) [Permanence properties and existence of minimal realizations for many-sorted algebras] **94c:18008**
Kelly, G. M. (*with* Power, A. J.) Adjunctions whose counits are coequalizers, and presentations of finitary enriched monads. (English summary) **94k:18008**
Power, A. J. *see* **Kelly, G. M., 94k:18008**

Items with secondary classifications in 18C10

Bloom, Stephen L. (*with* Ésik, Zoltán) Iteration algebras. (English summary) **94b:08013**
— (*with* Ésik, Zoltán; Taubner, Dirk) Iteration theories of synchronization trees. (English summary) **94b:68072**
Brookes, Stephen (*with* Geva, Shai) Computational comonads and intensional semantics. (English summary) **94h:68127**
Ésik, Zoltán *see* **Bloom, Stephen L., 94b:08013** *and* **94b:68072**
Geva, Shai *see* **Brookes, Stephen, 94h:68127**
Johnson, Michael Sterling James (*with* Walters, R. F. C.) Algebra objects and algebra families for finite limit theories. **94d:18003**
Makkai, Michael The fibrational formulation of intuitionistic predicate logic I: completeness according to Gödel, Kripke, and Läuchli. I. (English summary) **94h:03013**
Rajan, Dayanand S. The equations $D^kY = X^n$ in combinatorial species. (English summary) **94e:18004**
Taubner, Dirk *see* **Bloom, Stephen L.; et al., 94b:68072**
Walters, R. F. C. *see* **Johnson, Michael Sterling James, 94d:18003**

18C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [see also 18Gxx]

Freire Nistal, Jose L. (*with* López López, Miguel A.) The tensor product of triples as multilinear product. (English summary) **94g:18003**
Kelly, G. M. (*with* Lack, Stephen) Finite-product-preserving functors, Kan extensions and strongly-finitary 2-monads. (English summary) **94k:18009**
Lack, Stephen *see* **Kelly, G. M., 94k:18009**
López López, Miguel A. *see* **Freire Nistal, Jose L., 94g:18003**
Mulry, Philip S. Strong monads, algebras and fixed points. **94d:18008**

Items with secondary classifications in 18C15

Banaschewski, Bernhard (*with* Pultr, Aleš) Distributive algebras in linear categories. **94f:18007**
Berthiaume, Pierre Morphismes gauches et monades adjoints dans une 2-catégorie. (French summary) [Left morphisms and adjoint monads in a 2-category]
Kelly, G. M. (*with* Power, A. J.) Adjunctions whose counits are coequalizers, and presentations of finitary enriched monads. (English summary) **94k:18008**

Korostenski, Mareli (*with* Tholen, Walter) Factorization systems as Eilenberg-Moore algebras. (English summary) **94a:18002**
Pikhurko, O. B. (*with* Zarichnyĭ, M. M.) On lifting of functors to the Eilenberg-Moore category of the triple generated by the functor C_pC_p. (English and Ukrainian summaries) **94c:18007**
Power, A. J. *see* **Kelly, G. M., 94k:18008**
Pultr, Aleš *see* **Banaschewski, Bernhard, 94f:18007**
Tholen, Walter *see* **Korostenski, Mareli, 94a:18002**
Wadler, Philip Comprehending monads. (English summary) **94i:68176**
Zarichnyĭ, M. M. *see* **Pikhurko, O. B., 94c:18007**

18C20 Algebras and Kleisli categories associated with monads

Aguado Martín, F. ★ Construcción de álgebras en computación. (Spanish) [The construction of algebras in computing] **94g:18004**

Items with secondary classifications in 18C20

Mulry, Philip S. Strong monads, algebras and fixed points. **94d:18008**
Pelletier, Joan Wick (*with* Rosický, Jiří) On the equational theory of C^*-algebras. **94m:46115**
Porst, Hans-Eberhard The Linton theorem revisited. (French summary) **94m:18003**
Rosický, Jiří *see* **Pelletier, Joan Wick, 94m:46115**
Zarichnyi, M. M. On some categorical properties of probability measures. (English, Russian and Latvian summaries) (*see* **94b:00031**)

18C99 None of the above, but in this section

Cury, F. Complétion et complétude selon H. Andréka et I. Németi. [Completion and completeness according to H. Andréka and I. Németi] **94f:18006**
Reiterman, Jan Concrete full embeddings into categories of algebras and coalgebras. (English summary) **94m:18007**

18Dxx Categories with structure

18D05 Double categories, 2-categories, bicategories, hypercategories

Berthiaume, Pierre Morphismes gauches et monades adjoints dans une 2-catégorie. (French summary) [Left morphisms and adjoint monads in a 2-category]
Dawson, Robert J. MacG. (*with* Paré, Robert) General associativity and general composition for double categories. (French summary) **94c:18009**
Johnstone, P. T. Fibrations and partial products in a 2-category. (English summary) **94i:18007**
Paré, Robert *see* **Dawson, Robert J. MacG., 94c:18009**

Items with secondary classifications in 18D05

Aguado Martín, F. ★ Construcción de álgebras en computación. (Spanish) [The construction of algebras in computing] **94g:18004**
Bourn, Dominique Low-dimensional geometry of the notion of choice. (English summary) **94a:18007**
Burroni, Albert Higher-dimensional word problems with applications to equational logic. (English summary) **94m:03070**
Cockett, J. Robin B. (*with* Spencer, Dwight) Strong categorical datatypes. I. (English summary) **94a:18008**
Daumens, Michel Boson fermion realizations for the super-rotation algebra. (English summary) **94k:81084**
Dzhanelidze, G. Yu. (*with* Schumacher, Dietmar; Street, Ross) Galois theory in variable categories. (English summary) **94k:18011**
Lyubashenko, V. V. Categorical aspects of conformal field theory. (English summary) **94g:81177**
Mac Lane, Saunders Coherence theorems and conformal field theory. **94d:18010**
Pirashvili, T. I. H^3 and models for the homotopy theory. (Russian) **94i:18010**
Reichel, Horst A 2-category approach to critical pair completion. (*see* **94e:68018**)
Schumacher, Dietmar *see* **Dzhanelidze, G. Yu.; et al., 94k:18011**
Spencer, Dwight *see* **Cockett, J. Robin B., 94a:18008**
Street, Ross *see* **Dzhanelidze, G. Yu.; et al., 94k:18011**

18D10 Monoidal categories (= multiplicative categories) [see also 19D23]

Baranga, Andrei (*with* Căzănescu, Virgil Emil) Scalar vectorial operations in strict monoidal categories. (English summary) **94h:18009**
Căzănescu, Virgil Emil *see* **Baranga, Andrei, 94h:18009**
Joyal, André (*with* Street, Ross) Braided tensor categories. **94m:18008**
Kerler, Thomas Non-Tannakian categories in quantum field theory. (English summary) **94d:18009**
Mac Lane, Saunders Coherence theorems and conformal field theory. **94d:18010**
Majid, Shahn Braided groups. (English summary) **94d:18011**
— Cross products by braided groups and bosonization. (English summary) **94m:18009**
Rieffel, Marc A. Category theory and quantum field theory. (English summary) **94e:18005**
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Börger, Reinhard (*with* Tholen, Walter; Tozzi, Anna) Lexicographic sums and fibre-faithful maps. (English summary) **94m:18001**
Borowiec, Andrzej (*with* Marcinek, Władysław; Oziewicz, Zbigniew) On multigraded differential calculus. (English summary) **94a:58015**
Cartier, Pierre Construction combinatoire des invariants de Vassiliev-Kontsevich des nœuds. (English and French summaries) [A combinatorial construction for the Vassiliev-Kontsevich knot invariants] **94c:57004**
Căzănescu, Virgil Emil (*with* Ceterchi, Rodica) Initial and final congruences. (English summary) **94g:68086**
Ceterchi, Rodica *see* **Căzănescu, Virgil Emil, 94g:68086**
Cockett, J. Robin B. Introduction to distributive categories. (English summary) **94m:18002**
Doplicher, Sergio Operator algebras, group actions and abstract duals. (English summary) **94k:22009**
Dougherty, Daniel J. Closed categories and categorical grammar. (English summary) **94b:03056**
Durhuus, Bergfinnur (*with* Jakobsen, Hans Plesner; Nest, Ryszard) Topological quantum field theories from generalized 6j-symbols. (English summary) **94h:57025**
Jakobsen, Hans Plesner *see* **Durhuus, Bergfinnur; et al., 94h:57025**
Kapranov, M. M. The permutoassociahedron, Mac Lane's coherence theorem and asymptotic zones for the KZ equation. (English summary) **94b:52017**
Kasangian, Stefano (*with* Labella, Anna) Enriched categorical semantics for distributed calculi. (English summary) **94m:68047**
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Lafont, Yves Penrose diagrams and 2-dimensional rewriting. (English summary) **94d:68053**
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Shimakawa, Kazuhisa Mackey systems of monoidal categories and G-spectra. **94b:55016**
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Tozzi, Anna *see* **Börger, Reinhard; et al., 94m:18001**

18D15 Closed categories (closed monoidal and Cartesian closed categories, etc.)

Alonso Álvarez, J. N. (*with* Fernández Vilaboa, J. M.) Galois H-objects with a normal basis in closed categories. A cohomological interpretation. (English summary) **94k:18010**
Baran, Mehmet The notion of closedness in topological categories. (English summary) **94i:18008**
Fernández Vilaboa, J. M. *see* **Alonso Álvarez, J. N., 94k:18010**

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Alderton, Ian W. (*with* Schwarz, Friedhelm) Cartesian closed extensions of the category of uniform spaces. (English summary) **94m:54072**
Asperti, Andrea A categorical understanding of environment machines. **94d:68065**
Bentley, H. L. (*with* Lowen-Colebunders, E.) The Cartesian closed topological hull of the category of completely regular filterspaces. (French summary) **94c:18006a**
— (*with* Lowen-Colebunders, E.) Corrections to the paper: "The Cartesian closed topological hull of the category of completely regular filterspaces". **94c:18006b**
Brown, Carolyn (*with* Gurr, Doug) A representation theorem for quantales. (English summary) **94a:18006**
Gurr, Doug *see* **Brown, Carolyn, 94a:18006**
Jacobs, Bart Simply typed and untyped lambda calculus revisited. (English summary) **94b:03027**
Kasangian, Stefano (*with* Labella, Anna) Enriched categorical semantics for distributed calculi. (English summary) **94m:68047**
Labella, Anna *see* **Kasangian, Stefano, 94m:68047**
Lambek, J. Least fixpoints of endofunctors of Cartesian closed categories. (English summary) **94h:18001**
Lowen-Colebunders, E. (*with* Sonck, G.) Exponential objects and Cartesian closedness in the construct Prtop. (English summary) **94m:54029**
— *see also* **Bentley, H. L., 94c:18006a** *and* **94c:18006b**
Schwarz, Friedhelm *see* **Alderton, Ian W., 94m:54072**
Simpson, Alex K. A characterisation of the least-fixed-point operator by dinaturality. (English summary) **94m:68120**
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18D20 Enriched categories (over closed or monoidal categories)

Borceux, Francis (*with* Vitale, Enrico M.) A Morita theorem in topology. **94e:18006**
Chen, Huan Gen Categories with ordered structures. (Chinese. English summary) **94d:18012**
Edalat, Abbas (*with* Smyth, Michael B.) I-categories as a framework for solving domain equations. (English summary) **94d:18013**
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Flagg, Robert C. Completeness in continuity spaces. (English summary) **94a:54080**
Jay, C. Barry Modelling reduction in confluent categories. (English summary) **94h:68107**
Kasangian, Stefano (*with* Labella, Anna) Enriched categorical semantics for distributed calculi. (English summary) **94m:68047**
Kelly, G. M. (*with* Lack, Stephen) Finite-product-preserving functors, Kan extensions and strongly-finitary 2-monads. (English summary) **94k:18009**
— (*with* Power, A. J.) Adjunctions whose counits are coequalizers, and presentations of finitary enriched monads. (English summary) **94k:18008**
Labella, Anna *see* **Kasangian, Stefano, 94m:68047**
Lack, Stephen *see* **Kelly, G. M., 94k:18009**
Power, A. J. *see* **Kelly, G. M., 94k:18008**

18D25 Strong functors, strong adjunctions

Cockett, J. Robin B. (*with* Spencer, Dwight) Strong categorical datatypes. I. (English summary) **94a:18008**
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Preuß, Gerhard Cauchy spaces and generalizations. (English summary) **94h:18006**

18D30 Fibered categories

Dzhanelidze, G. Yu. (*with* Schumacher, Dietmar; Street, Ross) Galois theory in variable categories. (English summary) **94k:18011**
Jacobs, Bart Comprehension categories and the semantics of type dependency. (English summary) **94i:18009**
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Items with secondary classifications in 18D30

Johnstone, P. T. Fibrations and partial products in a 2-category. (English summary) **94i:18007**
Schauerte, A. On the MacNeille completion of the category of partially ordered topological spaces. (English summary) **94h:54041**

18D35 Structured objects in a category (group objects, etc.)

Vitale, Enrico M. Monoidal categories for Morita theory. (French summary) **94d:18014**

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Brown, Carolyn (*with* Gurr, Doug) A representation theorem for quantales. (English summary) **94a:18006**
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Gordon, Robert Crossed modules as G-categories. (French summary) **94k:18005**
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Banaschewski, Bernhard (*with* Pultr, Aleš) Distributive algebras in linear categories. **94f:18007**
Kelly, G. M. (*with* Lack, Stephen; Walters, R. F. C.) Coinverters and categories of fractions for categories with structure. (English summary) **94k:18012**
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Oda, Nobuyuki Pairings in categories. (English summary) **94k:55028**
Vajner, Vaclav Model-theoretic characterisations of convenience properties in topological categories. (French summary) **94f:18004**

18Exx Abelian categories

18E05 Preadditive, additive categories

Giovannitti, Anthony J. A note on proper classes of exact sequences. **94c:18010**
Zhuang, Wa Jin Two results on positive preadditive categories. (Chinese. English and Chinese summaries) **94m:18010**

Items with secondary classifications in 18E05

Arnold, David M. (*with* Richman, Fred; Vinsonhaler, C.) Representations of finite posets and valuated groups. **94d:20064**
Kasjan, Stanisław (*with* Simson, Daniel) Varieties of poset representations, tameness and minimal posets of wild prinjective type. (English summary) **94e:16025**
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Safuanov, I. S. Affine categories that are varieties of universal algebras. (Russian. Russian summary) **94i:08005**
Simson, Daniel *see* **Kasjan, Stanisław, 94e:16025** *and* (**94j:16002**)
Vinsonhaler, C. *see* **Arnold, David M.; et al., 94d:20064**

18E10 Exact categories, abelian categories

Marmaridis, Nikolaos On extensions of abelian categories with applications to ring theory. **94h:18010**

Items with secondary classifications in 18E10

Gentle, Ronald (*with* Todorov, Gordana) Approximations, adjoint functors and torsion theories. (English summary) **94h:18003**
— (*with* Todorov, Gordana) Approximations, adjoint functors and torsion theories. (English summary) (*see* **94j:16002**)
Hu, Hongde Dualities for accessible categories. (English summary) **94b:03103**
Kerler, Thomas Non-Tannakian categories in quantum field theory. (English summary) **94d:18009**
Schack, Samuel D. Bimodules, the Brauer group, Morita equivalence, and cohomology. **94c:16007**
Todorov, Gordana *see* **Gentle, Ronald, 94h:18003** *and* (**94j:16002**)
Zhou, Wei Exactness of the f-tensor functor for lattice-ordered modules and flat lattice-ordered modules. (Chinese. English and Chinese summaries) **94f:06018**

18E15 Grothendieck categories

Gómez Pardo, J. L. (*with* Guil Asensio, P. A.) Morita duality for Grothendieck categories. (English summary) **94c:18011**
Guil Asensio, P. A. *see* **Gómez Pardo, J. L., 94c:18011**

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Jeremías López, A. (*with* López López, M. P.; Villanueva Nóvoa, E.) Gabriel filters in Grothendieck categories. (English summary) **94a:18010**
López López, M. P. *see* **Jeremías López, A.; et al., 94a:18010**
del Río Mateos, Angel Categorical methods in graded ring theory. (English summary) **94c:16056**
Villanueva Nóvoa, E. *see* **Jeremías López, A.; et al., 94a:18010**

18E25 Derived functors and satellites

Pirashvili, T. I. H^3 and models for the homotopy theory. (Russian) **94i:18010**

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Khusainov, A. A. The Hochschild-Mitchell dimension of the set of real numbers is equal to 3. (Russian. English and Russian summaries) **94i:18012**
Loday, Jean-Louis ★ Cyclic homology. **94a:19004**
(Ronco, María O.) *see* **Loday, Jean-Louis, 94a:19004**

18E30 Derived categories, triangulated categories

Beligiannis, Apostolos (*with* Marmaridis, Nikolaos) On left derived categories of a stable category. (English summary) **94d:18015**
Bökstedt, Marcel (*with* Neeman, Amnon) Homotopy limits in triangulated categories. **94f:18008**
Generalov, A. I. Relative homological algebra in pre-abelian categories. I. Derived categories. (Russian) **94a:18009**
Keller, Bernhard A remark on tilting theory and DG algebras. (English summary) **94d:18016**
Marmaridis, Nikolaos *see* **Beligiannis, Apostolos, 94d:18015**
Neeman, Amnon The Brown representability theorem and phantomless triangulated categories. **94c:18012**
— *see also* **Bökstedt, Marcel, 94f:18008**
Wheeler, Wayne W. Stable equivalence and the stable triangle category. **94b:18003**
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Orlov, D. O. Projective bundles, monoidal transformations, and derived categories of coherent sheaves. (Russian. Russian summary) **94e:14024**
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18E35 Localization of categories

Calvo, Adina (*with* Calvo, Bernard) Inversion et localisation par quotient. (English and French summaries) [Inversion and localization by quotient] **94d:18017**
Calvo, Bernard *see* **Calvo, Adina, 94d:18017**
Ma, He Cheng *see* **Wang, De Sheng, 94d:18018**
Wang, De Sheng (*with* Ma, He Cheng) Localizations of A-sets. (Chinese. English and Chinese summaries) **94d:18018**

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Bökstedt, Marcel (*with* Neeman, Amnon) Homotopy limits in triangulated categories. **94f:18008**
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Neeman, Amnon *see* **Bökstedt, Marcel, 94f:18008**

18E40 Torsion theories, radicals [see also 13D30, 16S90]

Botha, S. G. Hoehnke radicals, $\mathscr{R}$-functors and universal maps. (English summary) **94i:18011**
Jeremías López, A. (*with* López López, M. P.; Villanueva Nóvoa, E.) Gabriel filters in Grothendieck categories. (English summary) **94a:18010**
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Picado, Jorge On two extensions of Dickson's torsion theory. (English summary) **94d:18019**
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Items with secondary classifications in 18E40

Asensio, M. J. (*with* Torrecillas Jover, Blas) Localization of relative injective modules. (Spanish) **94e:13029**
Colby, R. R. A cotilting theorem for rings. **94e:16011**
Gentle, Ronald (*with* Todorov, Gordana) Approximations, adjoint functors and torsion theories. (English summary) **94h:18003**
— (*with* Todorov, Gordana) Approximations, adjoint functors and torsion theories. (English summary) (*see* **94j:16002**)

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Torrecillas Jover, Blas *see* **Asensio, M. J., 94e:13029**
Zhou, Zheng Ping Semisimple quotient rings and Morita context. (English summary) **94d:16013**

18E99 None of the above, but in this section

Li, Tao Sheng Linear morphism equations in an abelian category. (Chinese. English and Chinese summaries)
Zhang, Zhi Huang Special radicals and Brown-McCoy radicals of weakly additive categories. (Chinese. English summary)

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Anderson, Frank W. (*with* Fuller, Kent R.) ★ Rings and categories of modules. **94i:16001**
Auslander, Maurice (*with* Reiten, Idun) Homologically finite subcategories. **94d:16017**
Fuller, Kent R. *see* **Anderson, Frank W., 94i:16001**
Reiten, Idun *see* **Auslander, Maurice, 94d:16017**
Vilonen, K. Perverse sheaves and finite-dimensional algebras. **94d:16012**
Waelbroeck, Lucien The category of quotient bornological spaces. (English summary) **94j:46071**

18Fxx Categories and geometry

18F05 Local categories and functors

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Aof, Mohamed El-Saeed Abbdel-Fattah (*with* Brown, Ronald) The holonomy groupoid of a locally topological groupoid. (English summary) **94e:22008**
Brown, Ronald *see* **Aof, Mohamed El-Saeed Abbdel-Fattah, 94e:22008**

18F10 Grothendieck topologies [see also 14F20]

Carboni, Aurelio (*with* Mantovani, Sandra) An elementary characterization of categories of separated objects. (English summary) **94k:18013**
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18F15 Abstract manifolds and fiber bundles [see also 55Rxx, 57Pxx]

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Banakh, T. O. Infinite-dimensional manifolds generated by ANR-operads. (Russian) **94a:57038**
Michor, Peter W. The relation between systems and associated bundles. (English summary) **94f:53039**
Shurygin, V. V. Manifolds over algebras and their application in the geometry of jet bundles. (Russian) **94i:58004**

18F20 Presheaves and sheaves [see also 14F05, 32C35, 32L10, 54B40, 55N30]

Balcı, Sabahattin On the restricted sheaf. (English summary) **94h:18012**
Golovin, V. D. Cohomology of computable sheaves. (Russian) **94c:18013**
Heggie, Murray Homotopy colimits in presheaf categories. (French summary) **94g:18005**
Katsov, E. B. (*with* Shul'geifer, E. G.) On the groupoid of varieties of group objects of a topos of presheaves. (Russian) **94c:18014**
Shul'geifer, E. G. *see* **Katsov, E. B., 94c:18014**
Verĕvkin, A. B. Injective Serre sheaves. (Russian. Russian summary) **94a:18011**

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Borceux, Francis (*with* Succi Cruciani, Rosanna) Sheaves on a quantale. (French summary) **94h:06017**
Georgescu, George Pierce sheaf and the duality of Lukasiewicz-Moisil algebras. **94d:06032**
Johnson, Michael Sterling James (*with* Sun, Shu Hao) Remarks on representations of universal algebras by sheaves of quotient algebras. (English summary) **94a:06018**
Orlov, D. O. Projective bundles, monoidal transformations, and derived categories of coherent sheaves. (Russian. Russian summary) **94e:14024**
Polishchuk, A. E. *see* **Bondal, A. I., 94m:16011**
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Sun, Shu Hao *see* **Johnson, Michael Sterling James, 94a:06018**
Vaggione, Diego J. Sheaf representation of lattice-ordered structures. (Spanish) **94a:08002**

18F25 Algebraic K-theory and L-theory [see also 11Exx, 11R70, 11S70, 12–XX, 13D15, 14Cxx, 16E20, 19–XX, 46L80, 57R65, 57R67]

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Davydov, A. A. Equivariant K-theory of schemes. (Russian) **94d:19008**
Gurrola, Pedro Caractère de Chern hermitien. (English and French summaries) [Hermitian Chern character] **94c:19004**
McCarthy, Randy On fundamental theorems of algebraic K-theory. **94e:19002**
Rognes, John A spectrum level rank filtration in algebraic K-theory. **94d:19007**
Solotar, Andréa Bivariant cohomology and S^1-spaces. (English and French summaries) **94d:55013**

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Banach, R. Weak fibrations. (English summary) **94c:18015**
Feit, Paul Axiomization of passage from "local" structure to "global" object. **94f:18009**
Mulvey, Christopher J. (*with* Pelletier, Joan Wick) A quantisation of the calculus of relations. (English summary) **94c:18016**
Pelletier, Joan Wick *see* **Mulvey, Christopher J., 94c:18016**

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Armanious, M. H. The associated geometric category of the category of Steiner triple systems. (English summary) **94e:51009**
Goguen, Joseph A. Sheaf semantics for concurrent interacting objects. **94c:68116**
Sekiguchi, Koji Ringed spaces of valuation rings and projective limits of schemes. **94f:14001**

18Gxx Homological algebra [see also 13Dxx, 16Exx, 55Uxx]

18G05 Projectives and injectives [see also 13C10, 13C11, 16D40, 16D50]

Items with secondary classifications in 18G05

Asensio Mayor, J. (*with* Martínez Hernández, J.) On flat and projective envelopes. **94k:16005**
Cheng, Fu Chang (*with* Wang, Ming Yi) Homological dimension of G-Matlis dual modules over semilocal rings. **94e:13016**
Hu, Hongde Dualities for accessible categories. (English summary) **94b:03103**
Kõnig, Steffen A guide to exact Borel subalgebras of quasi-hereditary algebras. **94f:16027**
— A guide to exact Borel subalgebras of quasi-hereditary algebras [MR 94f:16027]. (*see* **94j:16002**)
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Normak, Peeter Wreath product functor of acts. (English and Estonian summaries) **94c:20111**
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18G10 Resolutions; derived functors [see also 18E25]

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Blanc, David A. Operations on resolutions and the reverse Adams spectral sequence. **94e:55027**
Chardin, M. The resultant via a Koszul complex. (English summary) **94f:12002**
Hermida Alonso, José Á. (*with* Sánchez-Giralda, T.) Finite free resolutions of length two and Koszul generalized complex. **94m:13022**
Kimura, Takashi Generalized classical BRST cohomology and reduction of Poisson manifolds. (English summary) **94b:58042**
Sánchez-Giralda, T. *see* **Hermida Alonso, José Á., 94m:13022**

18G15 Ext and Tor, generalizations, Künneth formula [see also 55U25]

Betley, Stanisław (*with* Pirashvili, T. I.) Twisted (co)homological stability for monoids of endomorphisms. **94g:18006**
Pirashvili, T. I. Polynomial approximation of Ext and Tor groups in functor categories. **94d:18020**
— *see also* **Betley, Stanisław, 94g:18006**

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Dupont, Nicolas (*with* Hess, Kathryn P.) Twisted tensor models for fibrations. (English summary) **94m:55017**
Gurrola, Pedro Cohomologie quaternionique bivariante. (English and French summaries) [Bivariant quaternionic cohomology] **94g:19002**
Hess, Kathryn P. *see* **Dupont, Nicolas, 94m:55017**
Khusainov, A. A. The Hochschild-Mitchell dimension of the set of real numbers is equal to 3. (Russian. English and Russian summaries) **94i:18012**

18G20 Homological dimension [see also 13D05, 16E10]

Khusainov, A. A. The Hochschild-Mitchell dimension of the set of real numbers is equal to 3. (Russian. English and Russian summaries) **94i:18012**

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Cheng, Fu Chang (*with* Wang, Ming Yi) Homological dimension of G-Matlis dual modules over semilocal rings. **94e:13016**
Franco, L. (*with* Rodicio, A. G.) On the vanishing of the second André-Quillen homology of a local homomorphism. **94c:13011**
Rodicio, A. G. *see* **Franco, L., 94c:13011**
Tillmann, Ulrike Relation of the van Est spectral sequence to K-theory and cyclic homology. **94f:19006**
Wang, Ming Yi *see* **Cheng, Fu Chang, 94e:13016**
Zimmermann-Huisgen, Birge Homological assets of positively graded representations of finite-dimensional algebras. **94a:16014**

— Homological assets of positively graded representations of finite-dimensional algebras [MR 94a:16014]. (English summary) (*see* **94j:16002**)

18G25 Relative homological algebra, projective classes

Items with secondary classifications in 18G25

Generalov, A. I. Algebraically compact modules and relative homological algebra over tame hereditary algebras. (Russian. Russian summary) **94a:16007**

18G30 Simplicial sets, simplicial objects (in a category) [see also 55U10]

Segev, Yoav Group actions on finite acyclic simplicial complexes. (English summary) **94h:18013**

Items with secondary classifications in 18G30

Bourn, Dominique Low-dimensional geometry of the notion of choice. (English summary) **94a:18007**
Bullejos, M. (*with* Cegarra, A. M.; Duskin, J.) On cat^n-groups and homotopy types. (English summary) **94c:55013**
Cegarra, A. M. *see* **Bullejos, M.; et al., 94c:55013**
Duskin, J. *see* **Bullejos, M.; et al., 94c:55013**
Porter, Timothy n-types of simplicial groups and crossed n-cubes. **94e:55017**
Wraith, Gavin C. Using the generic interval. (French summary) **94j:06018**

18G35 Chain complexes [see also 18E30, 55U15]

Items with secondary classifications in 18G35

Kimura, Takashi Generalized classical BRST cohomology and reduction of Poisson manifolds. (English summary) **94b:58042**
Lambe, Larry A. Homological perturbation theory, Hochschild homology, and formal groups. **94b:16013**
— Resolutions which split off of the bar construction. (English summary) **94a:13010**
Refai, Mashhoor Modules over $K[x]$. (English summary) **94e:13027**
Shnider, Steven Deformation cohomology for bialgebras and quasi-bialgebras. **94e:16048**
Stanley, Richard P. A combinatorial decomposition of acyclic simplicial complexes. (English summary) **94k:55027**
Wheeler, Wayne W. Stable equivalence and the stable triangle category. **94b:18003**

18G40 Spectral sequences, hypercohomology [see also 55Txx]

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Leary, I. J. A differential in the Lyndon-Hochschild-Serre spectral sequence. (English summary) **94m:20102**
Li, Zun Xian A homological spectral sequence of group products. (English summary) **94b:20050**

18G50 Nonabelian homological algebra

Bullejos, M. (*with* Carrasco, P.; Cegarra, A. M.) Cohomology with coefficients in symmetric cat-groups. An extension of Eilenberg-Mac Lane's classification theorem. (English summary) **94k:18014**
Carrasco, P. *see* **Bullejos, M.; et al., 94k:18014**
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Heggie, Murray Homotopy cofibrations in CAT. (French summary) **94d:18021**

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Bondal, A. I. (*with* Polishchuk, A. E.) Homological properties of associative algebras: the method of helices. (Russian. Russian summary) **94m:16011**
Brylinski, Jean-Luc ★ Loop spaces, characteristic classes and geometric quantization. **94b:57030**
Polishchuk, A. E. *see* **Bondal, A. I., 94m:16011**
Retakh, V. S. Lie-Massey brackets and n-homotopically multiplicative maps of differential graded Lie algebras. (English summary) **94g:55023**

18G60 Other (co)homology theories (cyclic, dihedral, etc.) [see also 19D55, 46L80, 58B30, 58G12]

Karoubi, Max Formes différentielles non commutatives et cohomologie à coefficients arbitraires. (English and French summaries) [Noncommutative differential forms and cohomology with arbitrary coefficients] **94c:18017**
Markl, Martin A cohomology theory for $A(m)$-algebras and applications. (English summary) **94a:18012**

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Cortiñas, Guillermo (*with* Guccione, Jorge Alberto; Guccione, Juan José) Decomposition of the Hochschild and cyclic homology of commutative differential graded algebras. (English summary) **94c:19003**
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— (*with* Weibel, Charles) Homology of Azumaya algebras. (English summary) **94g:16009**
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Dawson, Robert J. MacG. Simplicial homology of preconvexity spaces. (French summary) **94i:18013**
Ellis, Graham J. Homotopical aspects of Lie algebras. (English summary) **94d:18022**

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Anick, David ★ Differential algebras in topology. (English summary) **94h:55020**
Auslander, Maurice (*with* Solberg, Øyvind) Relative homology and representation theory. I. Relative homology and homologically finite subcategories. **94k:16010a**
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Baez, John C. Hochschild homology in a braided tensor category. (English summary) **94k:16071**
Bouc, S. Homologie de certains ensembles de 2-sous-groupes des groupes symétriques. (French summary) [Homology of certain sets of 2-subgroups of symmetric groups] **94d:57004**
Faticoni, Theodore G. Category equivalences induced by Hom and tensor functors. **94e:16012**
Generalov, A. I. Relative homological algebra in pre-abelian categories. I. Derived categories. (Russian) **94a:18009**
Gordon, Robert Crossed modules as G-categories. (French summary) **94k:18005**
Hermida Alonso, José Á. (*with* Sánchez-Giralda, T.) Finite free resolutions of length two and Koszul generalized complex. **94m:13022**
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Kuhn, Nicholas J. Generic representation theory and Lannes' T-functor. **94i:55025**
Lian, Bong H. (*with* Zuckerman, Gregg J.) New perspectives on the BRST-algebraic structure of string theory. (English summary) **94e:81333**
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Roos, Jan-Erik Commutative non-Koszul algebras having a linear resolution of arbitrarily high order. Applications to torsion in loop space homology. (English and French summaries) **94b:16040**
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19–XX K-theory [see also 16E20, 18F25]

19–02 Research exposition (monographs, survey articles)

Bass, Hyman John Milnor, the algebraist. **94c:19001**
Ranicki, Andrew ★ Lower K- and L-theory. (English summary) **94f:19001**

19–06 Proceedings, conferences, collections, etc.

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19Axx Grothendieck groups and K_0 [see also 13D15, 18F30]

19A13 Stability for projective modules [see also 13C10]

Gubeladze, Joseph The elementary action on unimodular rows over a monoid ring. II. **94b:19001**

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Wiegand, Roger Torsion in Picard groups of affine rings. (English summary) **94m:13013**

19A22 Frobenius induction, Burnside and representation rings

Dress, Andreas W. M. (*with* Vallejo, Ernesto) A simple proof for a result by Kratzer and Thévenaz concerning the embedding of the Burnside ring into its ghost ring. **94a:19001**
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Thévenaz, Jacques Equivariant K-theory and Alperin's conjecture. (English summary) **94c:20022**
Webb, Peter J. Two classifications of simple Mackey functors with applications to group cohomology and the decomposition of classifying spaces. (English summary) **94f:20101**
Weinraub, David M. Noether's theorem for Hopf orders in group algebras. **94f:11122**

19A31 K_0 of group rings and orders

Gruenberg, K. W. Homotopy classes of truncated projective resolutions. **94f:19002**
Holland, David (*with* Wilson, S. M. J.) Localization and class groups of module categories with exactness defects. (English summary) **94d:19001**
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Items with secondary classifications in 19A31

Wang, Wen Ju The relation of K_0 and K_1 over a von Neumann regular ring R and its polynomial ring $R[t]$. (Chinese. English and Chinese summaries) **94j:19001**

19A49 K_0 of other rings

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Park, Chan-Bong The Krull dimension as a map of $\mathbf{Z}^+$ into some Grothendieck group. **94e:19001**
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Brown, Kenneth A. (*with* Lorenz, Martin) Grothendieck groups of invariant rings: filtrations. (English summary) **94h:16065**
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Coutinho, S. C. (*with* Holland, Martin P.) K-theory of twisted differential operators. **94e:16032**
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19Bxx Whitehead groups and K_1

19B14 Stability for linear groups

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19B28 K_1 of group rings and orders [see also 57Q10]

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19B37 Congruence subgroup problems [see also 20H05]

Items with secondary classifications in 19B37

Arlinghaus, F. A. (*with* Vaserstein, Leonid N.) Work of Pere Menal on normal subgroups. (English summary) **94k:20085**
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(Menal, Pere) *see* **Arlinghaus, F. A., 94k:20085**
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Shimakawa, Kazuhisa Mackey systems of monoidal categories and G-spectra. **94b:55016**

19Cxx Steinberg groups and K_2

19C09 Central extensions and Schur multipliers

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Bass, Hyman John Milnor, the algebraist. **94c:19001**

19C30 K_2 and the Brauer group

Barge, Jean Cocycle d'Euler et K_2. (English summary) [Euler cocycle and K_2] **94d:19003**

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Kahn, Bruno Descente galoisienne et K_2 des corps de nombres. (English and French summaries) [Galois descent and K_2 of number fields] **94i:11094**
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19Dxx Higher algebraic K-theory

19D06 Q- and plus-constructions

Items with secondary classifications in 19D06

Fiedorowicz, Z. (*with* Ogle, C.; Vogt, R. M.) Volodin K-theory of A_∞-ring spaces. **94h:19002**
Han, Sang-Eon On the relations between $\Pi_n R_\infty BGLA^+$ and $K_n(A)$. **94m:55010**
Hesselholt, Lars A homotopy theoretical derivation of Q Map $(K, -)_+$. **94k:55021**
Ogle, C. *see* **Fiedorowicz, Z.; et al., 94h:19002**
Vogt, R. M. *see* **Fiedorowicz, Z.; et al., 94h:19002**

19D10 Algebraic K-theory of spaces

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Levine, Marc The algebraic K-theory of the classical groups and some twisted forms. **94d:19004**
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Items with secondary classifications in 19D10

Klein, John R. Higher Franz-Reidemeister torsion: low-dimensional applications. (English summary) **94g:19004**

19D23 Symmetric monoidal categories [see also 18D10]

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Borceux, Francis (*with* Vitale, Enrico M.) A Morita theorem in topology. **94e:18006**
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19D45 Higher symbols, Milnor K-theory

Esnault, Hélène Some examples of computation of a regulator map on singular varieties. **94f:19004**

Items with secondary classifications in 19D45

Bass, Hyman John Milnor, the algebraist. **94c:19001**
Levine, Marc Relative Milnor K-theory. (English summary) **94b:19005**
Totaro, Burt Milnor K-theory is the simplest part of algebraic K-theory. (English summary) **94d:19009**

19D50 Computations of higher K-theory of rings [see also 13D15, 16E20]

Merkur'ev, A. S. (*with* Suslin, A. A.) The group of K_3-zero-cycles on Severi-Brauer varieties. **94c:19002**
Rognes, John Approximating $K_*(\mathbf{Z})$ through degree five. (English summary) **94i:19001**
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Magurn, Bruce A. Birelative K_2 of groups of square-free order. (English summary) **94b:19002**

19D55 K-theory and homology; cyclic homology and cohomology [see also 18G60]

Cortiñas, Guillermo (*with* Guccione, Jorge Alberto; Guccione, Juan José) Decomposition of the Hochschild and cyclic homology of commutative differential graded algebras. (English summary) **94c:19003**
Cuntz, Joachim (*with* Quillen, Daniel) On excision in periodic cyclic cohomology. (English and French summaries) **94i:19002**
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Dahl, Erlend (*with* Enriquez, Benjamin) Homologies cyclique et de Hochschild de certains espaces homogènes quantiques. (English and French summaries) [Cyclic and Hochschild homologies of some quantum homogeneous spaces] **94d:19005**
Emmanouil, Ioannis Cyclic homology and de Rham homology of commutative algebras. (English and French summaries) **94m:19002**
Enriquez, Benjamin *see* **Dahl, Erlend, 94d:19005**
Getzler, Ezra (*with* Jones, John D. S.) The cyclic homology of crossed product algebras. **94i:19003**
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Loday, Jean-Louis ★ Cyclic homology. **94a:19004**
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Solotar, Andréa Cyclic homology of a free loop space. **94h:19003**
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Tillmann, Ulrike Relation of the van Est spectral sequence to K-theory and cyclic homology. **94f:19006**
Vigué-Poirrier, Micheline Critères de nullité pour l'homologie des algèbres graduées. (English and French summaries) [Nullity criteria for the homology of graded algebras] **94g:19003**
Weibel, Charles Le caractère de Chern en homologie cyclique périodique. (English and French summaries) [The Chern character in periodic cyclic homology] **94h:19004**
Yao, Dongyuan A generalization of Brauer's map of decomposition. (English summary) **94j:19002**
Zekri, Richard Thom elements and bivariant cyclic cohomology. (English summary) **94a:19005**

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Blanc, Philippe (*with* Brylinski, Jean-Luc) Cyclic homology and the Selberg principle. (English summary) **94a:22023**
Bogomolov, F. A. On two conjectures in birational algebraic geometry. **94k:14013**
Bökstedt, Marcel (*with* Hsiang, W. C.; Madsen, Ib) The cyclotomic trace and algebraic K-theory of spaces. **94g:55011**
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— *see also* **Blanc, Philippe, 94a:22023**
Buenos Aires Cyclic Homology Group Cyclic homology of hypersurfaces. (English summary) **94f:16020**
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Cuntz, Joachim A survey of some aspects of noncommutative geometry. **94c:46137**
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Hain, Richard M. Classical polylogarithms. (English summary) **94k:19002**
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Hübl, Reinhold A note on the Hochschild homology and cyclic homology of a topological algebra. (English summary) **94g:16010**
Igusa, Kiyoshi Cyclic homology and the determinant of the Cartan matrix. (English summary) **94g:16011**
Jaffe, Arthur Noncommutative geometry and mathematical physics. **94f:46095**
Ji, Ronghui Smooth dense subalgebras of reduced group C^*-algebras, Schwartz cohomology of groups, and cyclic cohomology. **94a:22007**
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Khelemskii, A. Ya. Banach cyclic (co)homology as Banach derived functors. (Russian. Russian summary) **94g:46085**
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Koya, Yoshihiro Hasse's norm theorem for K_2. (English summary) **94b:11116**
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Madsen, Ib *see* **Bökstedt, Marcel; et al., 94g:55011**
McClure, J. E. (*with* Staffeldt, R. E.) On the topological Hochschild homology of bu. I. **94d:55020**
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Nistor, Victor A bivariant Chern-Connes character. **94i:19007**
— Cyclic cohomology of crossed products by algebraic groups. **94m:22010**
Pirashvili, T. I. *see* **Loday, Jean-Louis, 94j:17003**
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Gurrola, Pedro Caractère de Chern hermitien. (English and French summaries) [Hermitian Chern character] **94c:19004**
Laubenbacher, Reinhard C. Algebraic K-theory of poset representations. (English summary) **94d:19006**
McCarthy, Randy On fundamental theorems of algebraic K-theory. **94e:19002**
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Banaszak, Grzegorz Generalization of the Moore exact sequence and the wild kernel for higher K-groups. **94d:19010**
Levine, Marc The algebraic K-theory of the classical groups and some twisted forms. **94d:19004**

19Exx K-theory in geometry

19E08 K-theory of schemes [see also 14C35]

Consani, Caterina $\mathscr{F}$-theory of blow-ups and vector bundles on the cone over a surface. (English summary) **94i:19005**
Davydov, A. A. Equivariant K-theory of schemes. (Russian) **94d:19008**

Tillmann, Ulrike K-theory of fine topological algebras, Chern character, and assembly. (English summary) **94a:19006**

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19E15 Algebraic cycles [see also 14C25, 14C35]

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19E20 Relations with cohomology theories [see also 14Fxx]

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— (*with* Levine, Marc) Surjectivity of cycle maps. **94m:14008**
Goncharov, A. B. Polylogarithms and motivic Galois groups. **94m:19003**
Joshua, Roy Riemann-Roch for weakly-equivariant D-modules. II. **94m:14010**
Levine, Marc *see* **Esnault, Hélène, 94m:14008**

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MacPherson, Robert *see* **Hanamura, Masaki, 94h:19005**

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Morelli, Robert The K-theory of a toric variety. **94j:14047**
Soulé, Christophe *see* **Gillet, Henri, 94f:14019**

19Fxx K-theory in number theory [see also 11R70, 11S70]

19F05 Generalized class field theory [see also 11G45]

Kahn, Bruno Nullité de certains groupes attachés aux variétés semi-abéliennes sur un corps fini; application. (English summary) [Vanishing of certain groups attached to semi-abelian varieties over a finite field: an application] **94b:19006**
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Vostokov, S. V. *see* **Benua, D. G., 94c:11112**

19F15 Symbols and arithmetic [see also 11R37]

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19F27 Étale cohomology, higher regulators, zeta and L-functions [see also 11G40, 11R42, 11S40, 14F20, 14G10]

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Weibel, Charles *see* **Pedrini, C., 94f:14016**

19Gxx K-theory of forms [see also 11Exx]

19G12 Witt groups of rings [see also 11E81]

Lewis, David W. (*with* Tignol, J.-P.) Square class groups and Witt rings of central simple algebras. **94a:19007**
Tignol, J.-P. *see* **Lewis, David W., 94a:19007**

Items with secondary classifications in 19G12

Bass, Hyman John Milnor, the algebraist. **94c:19001**
Helmstetter, Jacques (*with* Micali, Artibano) Relations between Witt rings and Brauer groups. **94m:11051**
Marshall, Murray A. (*with* Powers, Victoria) Higher level form schemes. **94i:11031**
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19G38 Hermitian K-theory, relations with K-theory of rings

Cortiñas, Guillermo L-theory and dihedral homology. (English summary) **94j:19004**
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Fiedorowicz, Z. (*with* Schwänzl, R.; Vogt, R. M.) Hermitian structures on A_∞ ring spaces. (English summary) **94b:19003a**
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19Jxx Obstructions from topology

19J05 Finiteness and other obstructions in K_0

Items with secondary classifications in 19J05

Ranicki, Andrew ★ Lower K- and L-theory. (English summary) **94f:19001**

19J10 Whitehead (and related) torsion

Geoghegan, Ross (*with* Nicas, Andrew) Lefschetz trace formulae, zeta functions and torsion in dynamics. (English summary) (*see* **94d:55002**)
Klein, John R. Higher Franz-Reidemeister torsion: low-dimensional applications. (English summary) **94g:19004**
Nicas, Andrew *see* **Geoghegan, Ross,** (**94d:55002**)

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Hu, Bi Zhong Whitehead groups of finite polyhedra with nonpositive curvature. **94k:57037**
Ranicki, Andrew ★ Lower K- and L-theory. (English summary) **94f:19001**

19J25 Surgery obstructions [see also 57R67]

Items with secondary classifications in 19J25

Ranicki, Andrew ★ Lower K- and L-theory. (English summary) **94f:19001**

19Kxx K-theory and operator algebras [See mainly 46L80, and also 46M20]

Items with secondary classifications in 19Kxx

Cuntz, Joachim A survey of some aspects of noncommutative geometry. **94c:46137**

19K14 K_0 as an ordered group, traces

Items with secondary classifications in 19K14

Bellissard, Jean Gap labelling theorems for Schrödinger operators. **94e:46120**
Elliott, George A. (*with* Rørdam, Mikael) The automorphism group of the irrational rotation C^*-algebra. (English summary) **94j:46059**
— On the classification of C^*-algebras of real rank zero. (English summary) **94i:46074**
Handelman, David Representation rings as invariants for compact groups and limit ratio theorems for them. **94c:22005**

Ji, Ronghui Some applications of cyclic cohomology to the study of group C^*-algebras. **94g:46080**
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Zhang, Shuang Certain C^*-algebras with real rank zero and their corona and multiplier algebras. II. (English summary) **94i:46094**
— Certain C^*-algebras with real rank zero and their corona and multiplier algebras. I. **94i:46093**

19K33 EXT and K-homology [see also 55N22]

Items with secondary classifications in 19K33

Gong, Guihua Relative K-cycles and elliptic boundary conditions. **94a:58191**
— Smooth extensions for finite CW complexes. **94e:46126**
Kirchberg, Eberhard On nonsemisplit extensions, tensor products and exactness of group C^*-algebras. (English summary) **94d:46058**
Wang, Xiaolu Voiculescu theorem, Sobolev lemma, and extensions of smooth algebras. **94d:46070**

19K35 Kasparov theory (KK-theory) [see also 58G12]

Jensen, Kjeld Knudsen (*with* Thomsen, Klaus) ★ Elements of KK-theory. **94b:19008**
Salinas, Norberto Relative quasidiagonality and KK-theory. **94c:19005**
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Dădărlat, Marius Homotopy after tensoring with uniformly hyperfinite C^*-algebras. (English summary) **94g:46082**
Fox, Jeffrey (*with* Haskell, Peter) K-amenability for $SU(n, 1)$. (English summary) **94i:22033**
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Kasparov, G. G. Novikov's conjecture on higher signatures: the operator K-theory approach. **94c:57044**
Loring, Terry A. Deformations of nonorientable surfaces as torsion E-theory elements. (English and French summaries) **94c:46135**
Nistor, Victor A bivariant Chern-Connes character. **94i:19007**
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Weidner, J. (*with* Zekri, Richard) An equivariant version of the Cuntz construction. **94i:46092**
Zekri, Richard Thom elements and bivariant cyclic cohomology. (English summary) **94a:19005**
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19K56 Index theory [see also 58G12]

Guentner, Erik K-homology and the index theorem. (English summary) **94h:19006**
Higson, Nigel (*with* Roe, John) A homotopy invariance theorem in coarse cohomology and K-theory. (English summary) **94m:19004**
Nistor, Victor A bivariant Chern-Connes character. **94i:19007**
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Bellissard, Jean Gap labelling theorems for Schrödinger operators. **94e:46120**
— The gap labelling theorem: the case of automatic sequences. (English summary) (*see* **94m:00033**)
Benameur, Moulay-Tahar Un théorème de Lefschetz longitudinal en K-théorie équivariante. (English and French summaries) [A leafwise Lefschetz theorem in equivariant K-theory] **94h:58164**
Farsi, Carla Topological orbifolds. (English summary) **94m:57073**
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Gel'fand, I. M. (*with* Tsygan, B. L.) On the localization of topological invariants. **94a:57043**
Getzler, Ezra Cyclic homology and the Atiyah-Patodi-Singer index theorem. (English summary) **94j:58162**
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Kucerovsky, Dan Averaging operators and open manifolds. (English summary) **94g:58218**
Lesch, Matthias On the index of the infinitesimal generator of a flow. **94e:46118**
Mori, Keiichi Fredholm complexes on homogeneous spaces and geometric K-homology. I, II. **94g:58219**
Nistor, Victor Higher McKean-Singer index formulae and noncommutative geometry. (English summary) **94d:58140**
Park, Efton Index theory and Toeplitz algebras on one-parameter subgroups of Lie groups. (English summary) **94c:46136**
Plamenevskiĭ, B. A. (*with* Rozenblyum, G. V.) Topological characteristics of the algebra of singular integral operators on the circle with discontinuous symbols. (Russian. Russian summary) **94c:58204**
— (*with* Rozenblyum, G. V.) Pseudodifferential operators with discontinuous symbols: K-theory and index formulas. (Russian. Russian summary) **94a:58192**
Roe, John Coarse cohomology and index theory on complete Riemannian manifolds. **94a:58193**
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Sheu, Albert Jeu-Liang Toeplitz algebras of Reinhardt domains: an interaction between analysis and geometry. (English summary) **94f:46073**
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Elliott, George A. (*with* Natsume, Toshikazu; Nest, Ryszard) The Heisenberg group and K-theory. (English summary) **94m:46109**
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19Lxx Topological K-theory [see also 55N15, 55R50, 55S25]

Items with secondary classifications in 19Lxx

Husemoller, Dale ★ Fibre bundles. **94k:55001**

19L10 Riemann-Roch theorems, Chern characters

Items with secondary classifications in 19L10

Joshua, Roy Riemann-Roch for weakly-equivariant D-modules. II. **94m:14010**

19L20 J-homomorphism, Adams operations [see also 55Q50]

Grayson, Daniel R. Adams operations on higher K-theory. (English summary) **94g:19005**

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19L41 Connective K-theory, cobordism [see also 55N22]

Items with secondary classifications in 19L41

Tezuka, Michishige (*with* Yagita, Nobuaki) Complex K-theory of $B\mathrm{SL}_3(\mathbf{Z})$. (English summary) **94a:19008**
Yagita, Nobuaki *see* **Tezuka, Michishige, 94a:19008**

19L47 Equivariant K-theory [see also 55N91, 55P91, 55Q91, 55R91, 55S91]

Greenlees, J. P. C. K-homology of universal spaces and local cohomology of the representation ring. **94c:19007**

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Bifet, Emili Cohomology, symmetry, and perfection. (English summary) **94d:14024**
Schochet, Claude On equivariant Kasparov theory and Spanier-Whitehead duality. (English summary) **94c:19006**
Shimakawa, Kazuhisa Note on the equivariant K-theory spectrum. **94k:55020**
Sumi, Toshio $\mathbf{Z}/k\mathbf{Z}$-finiteness for certain S^1-spaces. **94c:55025**

19L64 Computations, geometric applications

Bănică, Constantin *see* **Le Potier, Joseph, 94g:19006**
Le Potier, Joseph (*with* Bănică, Constantin) Fibrés vectoriels topologiques de rang élevé sur une hypersurface. (English and French summaries) [Topological vector bundles of high rank on a hypersurface] **94g:19006**
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Bellissard, Jean Gap labelling theorems for Schrödinger operators. **94e:46120**
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Mimura, Mamoru (*with* Oka, Shichirô; Yasuo, Minato) K-theory and the homotopy types of some function spaces. **94g:55004**
Minami, Haruo On the K-theory of PE_7. **94i:55009**
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19L99 None of the above, but in this section

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Kreck, Matthias (*with* Stolz, Stephan) HP^2-bundles and elliptic homology. **94k:55015**
Madsen, Ib *see* **Bökstedt, Marcel; et al., 94g:55011**
Ranicki, Andrew ★ Algebraic L-theory and topological manifolds. (English summary) **94i:57051**
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Thompson, Robert D. A relation between K-theory and unstable homotopy groups with an application to $B\Sigma_p$. (English summary) **94j:55017**
Van Daele, A. K-theory for finite covariant systems. (English summary) **94c:46144**

19M05 Miscellaneous applications of K-theory

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Klein, John R. Higher Reidemeister torsion and parametrized Morse theory. **94h:57046**
Ranicki, Andrew ★ Algebraic L-theory and topological manifolds. (English summary) **94i:57051**

20–XX Group theory and generalizations

20–01 Instructional exposition (textbooks, tutorial papers, etc.)

Bishop, David M. ★ Group theory and chemistry. (English summary)
Burrow, Martin ★ Representation theory of finite groups. (English summary) **94a:20001**
Robinson, Derek J. S. ★ A course in the theory of groups. (English summary) **94m:20001**

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(A'Campo, Annette) *see* **Artin, Michael, 94k:00001**
Adkins, William A. (*with* Weintraub, Steven H.) ★ Algebra. **94a:00001**
Aivazis, Michael ★ *Group theory in physics*—problems and solutions. **94k:81001**
Artin, Michael ★ Algebra. (German. German summary) **94k:00001**
Goldschmidt, David M. ★ Group characters, symmetric functions, and the Hecke algebra. **94f:20012**
James, Gordon (*with* Liebeck, Martin) ★ Representations and characters of groups. (English summary) **94h:20007**
Liebeck, Martin *see* **James, Gordon, 94h:20007**
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Spindler, Karlheinz ★ Abstract algebra with applications. Vol. I. (English summary) **94i:00002a**
Sturmfels, Bernd ★ Algorithms in invariant theory. **94m:13004**
(Tung, W.-K.) *see* **Aivazis, Michael, 94k:81001**
Weintraub, Steven H. *see* **Adkins, William A., 94a:00001**

20–02 Research exposition (monographs, survey articles)

Amberg, Bernhard (*with* Franciosi, Silvana; de Giovanni, Francesco) ★ Products of groups. **94h:20001**
Di Martino, L. (*with* Tamburini Bellani, Maria Chiara) 2-generation of finite simple groups and some related topics. (English summary) **94b:20001**
Franciosi, Silvana *see* **Amberg, Bernhard; et al., 94h:20001**
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Karpilovsky, Gregory ★ Group representations. Vol. 2. **94f:20001**
Tamburini Bellani, Maria Chiara *see* **Di Martino, L., 94b:20001**
Yoshida, Tomoyuki Classical problems of group theory. I. Counting subgroups and homomorphisms. (Japanese. Japanese summary) **94k:20001**

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Carter, Roger W. ★ Finite groups of Lie type. **94k:20020**
Cohen, Arjeh M. Coxeter groups and three related topics. (English summary) **94b:20044**
Corsini, Piergiulio ★ Prolegomena of hypergroup theory. **94j:20083**
Edwards, P. M. Eventually regular semigroups: a survey. **94g:20089**
Gorenstein, Daniel A brief history of the sporadic simple groups. **94i:20031**
Miller, Charles F., III Decision problems for groups—survey and reflections. **94i:20057**
Sehgal, Sudarshan K. ★ Units in integral group rings. (English summary) **94m:16039**
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20–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 20–03

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Preston, G. B. Personal reminiscences of the early history of semigroups. (*see* **94c:20001**)
(Yang, Chen Ning) *see* **Zhang, Dian Zhou, 94h:01032**
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20–04 Explicit machine computation and programs (not the theory of computation or programming)

Butler, Gregory (*with* Cannon, John J.) On Holt's algorithm. (English summary) **94e:20001**
Cannon, John J. *see* **Butler, Gregory, 94e:20001**
Havas, George (*with* Holt, Derek F.; Rees, Sarah) Recognizing badly presented Z-modules. (English summary) **94i:20001**
Holt, Derek F. (*with* Rees, Sarah) A graphics system for displaying finite quotients of finitely presented groups. (English summary) **94g:20001**
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(Dinitz, Jeffrey H.) *see* **Coding theory, design theory, group theory, 94b:00043**
(Elman, Richard S.) *see* **Linear algebraic groups and their representations, 94f:20081**
(Farkas, Daniel R.) *see* **Computational algebra, 94e:16002**
(Fischer, Klaus G.) *see* **Computational algebra, 94e:16002**
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(Loustaunau, Philippe) *see* **Computational algebra, 94e:16002**
(Lyapin, E. S.) *see* **Partitions and holomorphic mappings of semigroups, 94j:20056**
(Schacher, Murray M.) *see* **Linear algebraic groups and their representations, 94f:20081**
(Shapiro, Jay) *see* **Computational algebra, 94e:16002**
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20Axx Foundations

20A05 Axiomatics and elementary properties

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Shelah, Saharon *see* **Mekler, Alan H., 94e:20074; Eklof, Paul C.; et al., 94f:20105** *and* **Baumgartner, James E.; et al., 94g:20005**
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20A99 None of the above, but in this section

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20Bxx Permutation groups

20B05 General theory for finite groups

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20B07 General theory for infinite groups

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20B10 Characterization theorems

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Żabka, Marek Weak automorphisms of the permutation groups S_n. **94k:20007**

20B15 Primitive groups

Baddeley, Robert W. Primitive permutation groups with a regular nonabelian normal subgroup. **94k:20005**
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20B20 Multiply transitive finite groups

Cameron, Peter J. Some multiply transitive permutation groups. (English summary) **94g:20004**
Conder, Marston D. E. Generating the Mathieu groups and associated Steiner systems. (English summary) **94f:20004**
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20B25 Finite automorphism groups of algebraic, geometric, or combinatorial structures [see also 05Bxx, 12F10, 20G40, 20H30, 51-XX]

Camina, Alan R. (*with* Praeger, Cheryl E.) Line-transitive automorphism groups of linear spaces. **94f:20005**
Dempwolff, Ulrich Perspectivities of odd order and Chevalley groups. (English summary) **94i:20003a**
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Cori, Robert (*with* Machì, Antonio) Cartes, hypercartes et leurs groupes d'automorphismes. [Maps, hypermaps and their groups of automorphisms] **94h:05024**

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Jung, H. A. Notes on rays and automorphisms of locally finite graphs. (English summary) **94d:05075**
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Pervin, Edward Geometric representations of the maximal subgroups of the Hesse group. (English summary) **94m:20046**
Praeger, Cheryl E. Finite vertex transitive graphs and primitive permutation groups. (English summary) **94e:05127**
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Glass, A. M. W. (*with* McCleary, Stephen H.) Big subgroups of automorphism groups of doubly homogeneous chains. **94m:20009**
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McCleary, Stephen H. *see* **Glass, A. M. W.**; **et al.**, **94i:20005** *and* **94m:20009**
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Paschke, William L. A numerical invariant for finitely generated groups via actions on graphs. (English summary) **94e:20005**
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Fournelle, Thomas A. Symmetries of the cube and outer automorphisms of S_6. **94a:20011**
Kiltinen, John O. How few transpositions suffice?... You already know!
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— (*with* Servatius, Herman) Permutation representations of the symmetry groups of regular hyperbolic tessellations. (English summary) **94h:20002**
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Macpherson, Dugald Large subgroups of infinite symmetric groups. (English summary) **94m:20012**
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Yu, Chang An Counting formulas for some combinatorial problems concerning permutation groups. (Chinese. English and Chinese summaries) **94m:05007**

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20B40 Computational methods

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Babai, László (*with* Luks, Eugene M.; Seress, Ákos) Computing composition series in primitive groups. (English summary) **94e:20008**
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Butler, Gregory An inductive schema for computing conjugacy classes in permutation groups. (English summary) **94c:20011**
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Kantor, William M. Random remarks on permutation group algorithms. **94i:20007**
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Curtis, R. T. Symmetric presentations. I. Introduction, with particular reference to the Mathieu groups M_{12} and M_{24}. (English summary) **94b:20038**
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Jerrum, Mark Uniform sampling modulo a group of symmetries using Markov chain simulation. (English summary) (*see* **94c:05002**)
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Laue, Reinhard Konstruktionen von Gruppen, Graphen, etc. [Constructions of groups, graphs, etc.] **94f:20006**
Lazarev, A. G. Practical results of the study of the generation of a symmetric group by systems of generators. (Russian. English and Ukrainian summaries) **94b:20005**
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20B99 None of the above, but in this section

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Muzychuk, M. E. The structure of rational Schur rings over cyclic groups. (English summary) **94j:05139**
Shalev, Aner Graded permutation modules and a theorem of Quillen. **94d:20012**
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20Cxx Representation theory of groups [see also 19A22 (for representation rings and Burnside rings)]

James, Gordon (*with* Liebeck, Martin) ★ Representations and characters of groups. (English summary) **94h:20007**
Liebeck, Martin *see* **James, Gordon, 94h:20007**

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Burrow, Martin ★ Representation theory of finite groups. (English summary) **94a:20001**

20C05 Group rings of finite groups and their modules [see also 16S34]

Beneish, Esther The Grothendieck ring of invertible modules over nilpotent groups. **94i:20009**
Bryant, Roger M. Symmetric powers of representations of finite groups. **94c:20012**
Giambruno, Antonio (*with* Sehgal, Sudarshan K.) Lie nilpotence of group rings. (English summary) **94g:20008**
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Iliev, Valentin Vankov On certain polynomial functors.
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Külshammer, Burkhard Some indecomposable modules and their vertices. (English summary) **94c:20013**
Lucchini, Andrea Generating the augmentation ideal. **94e:20010**
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Roggenkamp, K. W. (*with* Scott, Leonard L.) Automorphisms and nonabelian cohomology: an algorithm. (English summary) **94i:20010**
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Shiu, Wai-Chee Algebraic structure of Schur rings. (English summary) **94b:20007**
Thompson, Gary Subgroup rigidity in finite-dimensional group algebras over p-groups. **94c:20014**
Valenti, Angela Torsion units in integral group rings. (English summary) **94b:20008**
Wursthorn, Martin Isomorphisms of modular group algebras: an algorithm and its application to groups of order 2^6. (English summary) **94b:20008**
Zimmermann, Alexander Conjugacy of involutions in integral group rings of certain dihedral and semidihedral groups. **94d:20007**

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Arora, Satya R. Nilpotent elements in group algebras. **94b:16031**
Bist, Vikas Unit groups of integral group rings. **94b:16041**
Bovdi, A. (*with* Lakatos, P.) On the exponent of the group of normalized units of modular group algebras. **94h:16056**
Erdmann, Karin (*with* Schaps, Malka) Deformation of tame blocks and related algebras. (English summary) **94m:16036**
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Marcja, Annalisa (*with* Toffalori, Carlo) Decidability for modules over a group ring. **94g:03089**
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Parmenter, M. M. Free torsion–free normal complements in integral group rings. **94k:16047**
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Puig, Lluís On Thévenaz' parametrization of interior G-algebras. **94m:20031**
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Sehgal, Sudarshan K. ★ Units in integral group rings. (English summary) **94m:16039**
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Symonds, Peter An alternating sum formula for multiplicities of lower defect groups. **94h:20016**
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20C07 Group rings of infinite groups and their modules [see also 16S34]

Brookes, C. J. B. (*with* Brown, Kenneth A.) Injective modules, induction maps and endomorphism rings. (English summary) **94e:20011**
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Danchev, P. V. Sylow p-subgroups of commutative group algebras. **94k:20010**
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Cedó, Ferran (*with* Hartley, Brian) Maximal quotient rings and essential right ideals in group rings of locally finite groups. (English summary) **94b:16032**
Evans, David M. (*with* Siemons, Johannes) On the number of orbits of a group in two permutation actions. **94a:20005**
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Wilson, John S. On finitely presented soluble groups with small abelian-by-finite images. **94h:20046**
Zhou, Yong Xin (*with* Zhu, Yuan Sen) The uniqueness problem for coefficient rings of isomorphic group rings. (Chinese. Chinese summary) **94a:16051**
Zhu, Yuan Sen *see* **Zhou, Yong Xin, 94a:16051**

20C10 Integral representations of finite groups

Bier, Thomas (*with* Greenlees, J. P. C.) The lattice spanned by the cosets of subgroups in the integral group ring of a finite group. **94f:20009**
Greenlees, J. P. C. *see* **Bier, Thomas, 94f:20009**
Gruenberg, K. W. (*with* Weiss, Alfred R.) Genera of envelopes. **94a:20013**
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Hertweck, Martin Zentrale und primzentrale Automorphismen. [Central and prime-central automorphisms] **94g:20009**
Jespers, Eric (*with* Leal, Guilherme) Generators of large subgroups of the unit group of integral group rings. **94f:20010**
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Malinin, D. A. Integer representations of finite nilpotent groups. (Russian. Russian summary) **94j:20002**
Plesken, W. Some arithmetic-geometric problems related to Specht-lattices. **94c:20016**
Roggenkamp, K. W. (*with* Zimmermann, A.) On the isomorphism problem for integral group rings of finite groups. **94a:20014**
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Gupta, Narain (*with* Tahara, Ken-Ichi) The seventh and eighth Lie dimension subgroups. (English summary) **94k:20066**
Haefner, Jeremy (*with* Klingler, Lee) Special quasi-triads and integral group rings of finite representation type. I, II. (English summary) **94k:16028**
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Roggenkamp, K. W. Blocks which are stably isomorphic to defect group rings. **94b:20009**
— Blocks which are stably isomorphic to defect group rings [MR 94b:20009]. (*see* **94j:16002**)

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— (*with* Staszewski, R.) A construction of $\hat{3}$McL and some representation theory in characteristic 5. (English summary) **94k:20015**
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Brookes, C. J. B. (*with* Brown, Kenneth A.) Injective modules, induction maps and endomorphism rings. (English summary) **94e:20011**
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— *see also* **Dipper, Richard, 94a:20025**
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Serre, Jean-Pierre Sur la semi-simplicité des produits tensoriels de représentations de groupes. [On the semisimplicity of the tensor products of group representations] **94m:20091**
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— The modular characters of the twisted Chevalley group ${}^2D_4(2)$ and ${}^2D_4(2).2$. **94m:20038**
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20C25 Projective representations and multipliers

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Hoffman, P. N. (*with* Humphreys, John F.) ★ Projective representations of the symmetric groups. **94f:20027**
— Projective and multigraded representations of monomial and multisigned groups. I. Graded representations of a twisted product. (English summary) **94a:20021**
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Humphreys, John F. The Schur multipliers of the representation groups of the irreducible finite reflection groups. **94d:20013**
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Zhmud', È. M. Kernels of projective representations of finite groups. (Russian) **94f:20028**
Zhou, Xiaoming On the order of Schur multipliers of finite p-groups. **94m:20035**

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Blau, Harvey I. A fixed-point theorem for central elements in quasisimple groups. (English summary) **94m:20040**
Karpilovsky, Gregory ★ Group representations. Vol. 2. **94f:20001**
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Agrachëv, A. A. (*with* Gamkrelidze, R. V.) The shuffle product and symmetric groups. (English summary) **94h:20018**
Allen, Edward E. A conjecture of Procesi and a new basis for the decomposition of the graded left regular representation of S_n. (English summary) **94j:20008**
Barcelo, Hélène Young straightening in a quotient S_n-module. (English summary) **94b:20016**
Calderbank, A. Robert (*with* Hanlon, Phil; Sundaram, Sheila) Representations of the symmetric group in deformations of the free Lie algebra. **94c:20026**
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Clausen, Michael (*with* Meier, Helga) Extreme irreduzible Konstituenten in Tensordarstellungen symmetrischer Gruppen. (German summary) [Extreme irreducible constituents in tensor representations of symmetric groups] **94j:20009**
Coker, C. A problem related to Foulkes's conjecture. (English summary) **94g:20019**
Dipper, Richard (*with* Du, Jie) Trivial and alternating source modules of Hecke algebras of type A. **94a:20022**
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Maslyakov, I. Yu. Sharp exact irreducible characters of symmetric and alternating groups. (Russian. Russian summary) **94i:20023**
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Blessenohl, Dieter (*with* Laue, Hartmut) A basis construction for free Lie algebras. (English summary) **94d:17006**
Bressoud, David M. (*with* Wei, Shi-Yuan) Combinatorial equivalence of definitions of the Schur function. (English summary) **94b:05211**
Britten, Daniel *see* **Benkart, Georgia; et al., 94a:17003**
Caccetta, L. (*with* Kraetzl, Miro) Blocking probabilities of certain classes of channel graphs. (English summary) **94c:05068**
Carré, Christophe (*with* Lascoux, Alain; Leclerc, Bernard) Turbo-straightening for decomposition into standard bases. (English summary) **94b:05212**
Chatterjee, Ramananda (*with* Lulek, Tadeusz; Biel, J. K.) Electronic spaces and classification of multielectron states in multicentre systems. (English summary) **94c:82088**
Chu, Wen Chang Direct proof of the determinant expression for flagged skew tableaux. (English summary) **94a:05213**
Clausen, Michael (*with* Baum, Ulrich) Fast Fourier transforms for symmetric groups: theory and implementation. (English summary) **94a:20028**
Cohen, Miriam (*with* Fischman, Davida; Westreich, Sara) Schur's double centralizer theorem for triangular Hopf algebras. (English summary) **94k:16065**
Diaconis, Persi W. (*with* Rockmore, Daniel N.) Efficient computation of isotypic projections for the symmetric group. (English summary) **94g:20022**
Di Vincenzo, Onofrio Mario On the graded identities of $M_{1,1}(E)$. (English summary) **94f:16041**
Dixon, John D. Constructing representations of finite groups. (English summary) **94h:20011**
Du, Jie A matrix approach to IC bases. **94b:17020**
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Fomin, S. V. (*with* Greene, Curtis) A Littlewood-Richardson miscellany. **94b:05213**
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— A projective analogue of Schur's tensor power construction. (English summary) **94c:20023**
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— A note on the polynomial functors corresponding to the monomial representations of the symmetric group. (English summary) **94f:20084**
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Kerber, Adalbert La théorie combinatoire sous-tendant la théorie des représentations linéaires des groupes symétriques finis. [The combinatorial theory underlying the theory of linear representations of finite symmetric groups] **94i:05109**
Khammash, Ahmed A. Functors and projective summands of permutation modules. **94m:20027**
Kleshchev, A. S. ★ On restrictions of irreducible modular representations of semisimple algebraic groups and symmetric groups to some natural subgroups. (Russian summary) **94g:20061**
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— Squares of characters in A_n with a small number of irreducible constituents. (English summary) **94d:20009**

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Li, Xiang Zhu (*with* Paldus, Josef) Unitary group tensor operator algebras for many-electron systems. II. One- and two-body matrix elements. (English summary) **94g:22040**
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Carter, Roger W. ★ Finite groups of Lie type. **94k:20020**
Cohen, Arjeh M. (*with* Wales, David B.) Embeddings of the group $L(2, 13)$ in groups of Lie type E_6. (English summary) **94h:20020**
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Siegel, Eli A. The representations of a Hecke algebra of the affine group over a finite field. **94i:20027**
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Takeuchi, Mitsuhiro Representation theory of q-Schur algebras and Hecke algebras. **94b:20025**
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Burichenko, V. P. Invariant lattices in the Steinberg module, and their isometry groups. (Russian. Russian summary) **94i:20083**
Curtis, Charles W. On the Gel'fand-Graev representations of a reductive group over a finite field. **94i:20075**
Feit, Walter Extending Steinberg characters. (English summary) **94k:20012**
Fisher, Tony J. Weight operators and group geometries. (English summary) **94h:20038**
Fleischmann, Peter On Lusztig's isomorphism theorems for Hecke algebras and representation theory. **94c:20074**
Fong, Paul (*with* Harris, Morton E.) On perfect isometries and isotypies in finite groups. **94i:20012**
Harris, John C. (*with* Shank, R. James) Lannes' division functors on summands of $H^*(B(\mathbf{Z}/p)^r)$. **94b:55024**
Harris, Morton E. *see* **Fong, Paul, 94i:20012**
Kato, Shin-ichi Duality for representations of a Hecke algebra. (English summary) **94g:20060**
Lee, Ronnie (*with* Weintraub, Steven H.) The "coadjoint" representation of $PSp_4(\mathbf{Z}/2)$. **94e:11048**
Passman, D. S. Semiprimitivity of group algebras of infinite simple groups of Lie type. (English summary) **94h:16039**
Seitz, Gary M. Bounds for dimensions of weight spaces of maximal tori. (English summary) **94m:20097**
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Margolin, Richard S. Representations of M_{12}. (English summary) **94c:20029**
— A geometry for M_{24}. (English summary) **94c:20030**
Schneider, Gerhard J. A. The structure of the projective indecomposable modules of the Mathieu group M_{12} in characteristic 2 and 3. **94f:20031**
Soicher, Leonard H. The Lyons group has no distance-transitive representation. (English summary) **94h:20021**
Staszewski, R. *see* **Lempken, Wolfgang, 94a:20027**
Suleiman, Ibrahim A. I. (*with* Wilson, Robert A.) The 3-modular characters of the McLaughlin group McL and its automorphism group McL.2. **94c:20031**
— (*with* Wilson, Robert A.) Construction of the fourfold cover of the Mathieu group M_{22}. (English summary) **94h:20022**
Waki, Katsushi The Loewy structure of the projective indecomposable modules for the Mathieu groups in characteristic 3. **94c:20032**
— The projective indecomposable modules for the Higman-Sims group in characteristic 3. **94i:20028**
Wilson, Robert A. The Brauer tree for J_3 in characteristic 17. (English summary) **94g:20021**
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Fisher, Tony J. Weight operators and group geometries. (English summary) **94h:20038**
Hiss, Gerhard The 3-modular characters of the Rudvalis sporadic simple group and its covering group. (English summary) **94g:20013**
Wilson, Robert A. A new construction of the Baby Monster and its applications. (English summary) **94k:20027**
Xu, Xiaoping Central extensions of self-dual type-A complex lattices. (English summary) **94m:17027**

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Carré, Christophe (*with* Thibon, Jean-Yves) Plethysm and vertex operators. (English summary) **94c:05070**
Cotfas, N. Topological manifolds and vector bundles with applications to crystal physics. (English summary) **94d:57065**
Daoud, M. *see* **Kibler, M. R., 94h:81174**
Fet, A. I. The symmetry group of chemical elements. (Russian. Russian summary) **94j:81306**
Finol, Carlos On appropriate representations of groups. (English and Spanish summaries) **94k:22029**
Gould, M. D. Quantum double finite group algebras and their representations. (English summary) **94h:16072**
(Hatch, Dorian M.) *see* **Kovalev, O. V., 94k:20087**
Katriel, Jacob *see* **Novoselsky, Akiva, 94k:81081**
Kibler, M. R. (*with* Daoud, M.) Sum rules for multi-photon spectroscopy of ions in finite symmetry. (English summary) **94h:81174**
Kovalev, O. V. ★ Representations of the crystallographic space groups. (English summary) **94k:20087**
Kramer, Peter Free groups, their automorphism groups, applications. (English summary) **94k:20044**
Lin, Ni An *see* **Yu, Zu Rong, 94j:82031**
Negro, Javier (*with* del Olmo, Mariano A.) On the local equivalence in a unidimensional world. (English summary) **94g:81047**
Novoselsky, Akiva (*with* Katriel, Jacob) Harmonic oscillator SU_3 states with arbitrary permutational symmetry. (English summary) **94k:81081**
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Shelepin, A. L. (*with* Shelepin, L. A.) Clebsch-Gordan coefficients in coherent and mixed bases. (Russian) **94g:81063**
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(Stokes, Harold T.) *see* **Kovalev, O. V., 94k:20087**
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Yu, Zu Rong (*with* Lin, Ni An) Applications of permutation group theory to Heisenberg spin-1/2 chain. (English summary) **94j:82031**

20C40 Computational methods

Baum, Ulrich (*with* Clausen, Michael) Computing irreducible representations of supersolvable groups. (English summary) **94i:20029**
— *see also* **Clausen, Michael, 94a:20028** *and* **(94c:20003)**
Bergeron, François Surprising mathematics using a computer algebra system. (English summary) **94j:20010**
Clausen, Michael (*with* Baum, Ulrich) Fast Fourier transforms for symmetric groups. (English summary) (*see* **94c:20003**)
— (*with* Baum, Ulrich) Fast Fourier transforms for symmetric groups: theory and implementation. (English summary) **94a:20028**
— *see also* **Baum, Ulrich, 94i:20029**
Diaconis, Persi W. (*with* Rockmore, Daniel N.) Efficient computation of isotypic projections for the symmetric group. (English summary) **94g:20022**
Linton, Stephen A. On vector enumeration. (English summary) **94k:20022**
Rockmore, Daniel N. *see* **Diaconis, Persi W., 94g:20022**

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Clausen, Michael (*with* Meier, Helga) Extreme irreduzible Konstituenten in Tensordarstellungen symmetrischer Gruppen. (German summary) [Extreme irreducible constituents in tensor representations of symmetric groups] **94j:20009**
Georg, Kurt (*with* Miranda, Rick) Exploiting symmetry in solving linear equations. **94j:65039**
Lafferty, John D. (*with* Rockmore, Daniel N.) Numerical investigation of the spectrum for certain families of Cayley graphs. (English summary) (*see* **94c:05002**)
Lempken, Wolfgang (*with* Staszewski, R.) The structure of the projective indecomposable modules of $3M_{22}$ in characteristic 2. (English summary) **94g:20016**
Meier, Helga *see* **Clausen, Michael, 94j:20009**
Miranda, Rick *see* **Georg, Kurt, 94j:65039**
Rockmore, Daniel N. *see* **Lafferty, John D., (94c:05002)**
Schneider, Gerhard J. A. The structure of the projective indecomposable modules of the Mathieu group M_{12} in characteristic 2 and 3. **94f:20031**
Souvignier, Bernd Irreducible finite integral matrix groups of degree 8 and 10. (English summary) **94i:20091**
Staszewski, R. *see* **Lempken, Wolfgang, 94g:20016**
Suleiman, Ibrahim A. I. The modular characters of the twisted Chevalley group ${}^2D_4(2)$ and ${}^2D_4(2).2$. **94m:20038**
Wilson, Robert A. A new construction of the Baby Monster and its applications. (English summary) **94k:20027**
Wursthorn, Martin Isomorphisms of modular group algebras: an algorithm and its application to groups of order 2^6. (English summary) **94h:20008**

20C99 None of the above, but in this section

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Bannai, Eiichi Algebraic combinatorics—recent topics in association schemes. (Japanese) **94g:05105**
Dress, Andreas W. M. (*with* Vallejo, Ernesto) A simple proof for a result by Kratzer and Thévenaz concerning the embedding of the Burnside ring into its ghost ring. **94a:19001**
Faĭziev, V. A. Pseudocharacters of the group SL(2, Z). (Russian) **94a:20069**
Frohman, Charles (*with* Long, D. D.) Casson's invariant and surgery on knots. (English summary) **94a:57012**
González-Acuña, F. (*with* Litherland, R.; Whitten, Wilbur) Co-Hopficity of Seifert-bundle groups. **94c:57001**
Habsieger, Laurent Applications of group representation theory to the easier Waring problem. (English summary) **94m:11117**
Jablan, Slavik Vlado Simple and multiple antisymmetry colorings of rosettes. (English and Serbo-Croatian summaries) **94c:20085**
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Raghavan, Srinivasacharya A canonical anti-isomorphism of matrix Hecke rings. (English summary) **94d:11021**
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Blau, Harvey I. A fixed-point theorem for central elements in quasisimple groups. (English summary) **94m:20040**
Gorenstein, Daniel (*with* Lyons, Richard N.) On Aschbacher's local $C(G;T)$ theorem. (English summary) **94k:20023**
— (*with* Lyons, Richard N.; Solomon, Ronald) On split (B,N)-pairs of rank 2. **94f:20032**
Held, Dieter (*with* Hrabě de Angelis, Jörg) A character-theory-free characterization of the simple groups M_{11} and $L_3(3)$. (English summary) **94b:20026**
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Iiyri, Nobuo (*with* Yamaki, Hiroyoshi) Two applications of the classification of finite simple groups. (English summary) **94a:20029**
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Parker, Christopher A classification of amalgams of type $(G_2(2),\Sigma_3)$ and $(U_3(3),\Sigma_3)$. **94j:20011**
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Kimmerle, Wolfgang (*with* Sandling, Robert) The determination of abelian Hall subgroups by a conjugacy class structure. (English summary) **94f:20038**
Robinson, Geoffrey R. *see* **Guralnick, Robert M., 94i:20034**
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20D06 Simple groups: alternating groups and groups of Lie type [see also 20Gxx, 22Exx]

Aschbacher, Michael Simple connectivity of p-group complexes. (English summary) **94j:20012**
Cohen, Arjeh M. (*with* Griess, Robert L., Jr.; Lisser, Bert) The group $L(2,61)$ embeds in the Lie group of type E_8. (English summary) **94m:20041**
Conway, J. H. From hyperbolic reflections to finite groups. **94h:20023**
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Iiyori, Nobuo A conjecture of Frobenius and the simple groups of Lie type. IV. **94d:20014**
Kantor, William M. Some topics in asymptotic group theory. **94a:20031**
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Brozovic, Douglas (*with* Solomon, Ronald) A survey on chains of subgroups. **94e:20031**
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— (*with* Gillio Berta Mauri, Anna; Verardi, Libero) Finite groups with zero Möbius functions. (Italian. English summary) **94m:20044**
Conder, Marston D. E. (*with* Wilson, Robert A.; Woldar, Andrew J.) The symmetric genus of sporadic groups: announced results. (English summary) **94f:20033**
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Ivanov, Aleksandr Anatol'evich A geometric characterization of the Monster. (English summary) **94c:20033**
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Magaard, Kay Monodromy and sporadic groups. **94j:20014**
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Parker, Christopher Groups containing a subdiagram $\circ\!\!-\!\!\circ\!\!\overset{\sim}{=}\!\!\circ$. **94a:20034**
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Aschbacher, Michael Simple connectivity of p-group complexes. (English summary) **94j:20012**
Bagchi, Bhaskar A regular two-graph admitting the Hall-Janko-Wales group. (English summary) **94d:05149**
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Curtis, R. T. Symmetric presentations. I. Introduction, with particular reference to the Mathieu groups M_{12} and M_{24}. (English summary) **94b:20038**
— Symmetric presentations. II. The Janko group J_1. (English summary) **94b:20039**
Dolan, L. Fermionic conformal field theory. (English summary) **94j:81217**
Frohardt, Daniel E. (*with* Smith, Stephen D.) Universal embeddings for the ${}^3D_4(2)$ hexagon and J_2 near-octagon. (English summary) **94a:51004**
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Hiss, Gerhard The 3-modular characters of the Rudvalis sporadic simple group and its covering group. (English summary) **94g:20013**
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Kleidman, Peter B. (*with* Wilson, Robert A.) Sporadic simple subgroups of finite exceptional groups of Lie type. **94e:20020**
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20D10 Solvable groups, theory of formations, Schunck classes, Fitting classes, π-length, ranks [see also 20F17]

Ballester-Bolinches, A. (*with* Ezquerro Marín, Luis Miguel) Characterizations of Schunck classes of finite groups. **94k:20030**
Brandl, Rolf (*with* Deaconescu, Marian) On finite Krutik-groups. (English summary) **94f:20034**
Carlip, Walter Regular orbits of nilpotent subgroups of solvable groups. **94k:20031**
Deaconescu, Marian *see* **Brandl, Rolf, 94f:20034**
Doerk, Klaus Eine Bemerkung über das Reduzieren von Hallgruppen in endlichen auflösbaren Gruppen. [A remark on the reduction of Hall subgroups in finite solvable groups] **94b:20027**
Ercan, Gülin (*with* Güloğlu, İsmail Ş.) On the Fitting length of $H_n(G)$. **94f:20035**
Ezquerro Marín, Luis Miguel A contribution to the theory of finite supersoluble groups. **94e:20024**
— *see also* **Ballester-Bolinches, A., 94k:20030**
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Hai, Jin Ke Characteristics of the F-hypercenter. (Chinese. English and Chinese summaries) **94e:20025**
Jiménez Seral, Paz Strong containment for Schunck classes. (English summary) **94m:20048**
— The Schunck class of all "G-perfect groups". **94e:20026**
— A lattice of homomorphs. **94j:20015**
Monakhov, V. S. On the existence of solvable injectors in finite groups. (Russian. English and Russian summaries) **94b:20028**
Pazderski, Gerhard A sort of non-p-nilpotent groups. **94f:20036**
Pense, Joachim Ränder und Erzeugendensysteme von Fittingklassen. [Boundaries and generating systems of Fitting classes] **94h:20026**
Ramadan, M. (*with* Rashwan, O. A.) On the supersolvability of finite groups. (English summary) **94m:20049**
— *see also* **Shaalan, A., 94k:20032**
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Ren, Yong Cai (*with* Xiong, Hui Chuan) A class of solvable T-groups. (Chinese. Chinese summary) **94b:20029**
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Shaalan, A. (*with* Ramadan, M.) On MNP-groups. **94k:20032**
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Valero Oltra, M. O. Schunck classes of finite π-soluble groups with the D-property. (English and Italian summaries) **94m:20050**
Vera López, Antonio (*with* Sangróniz, J.) On class numbers of a finite group and of its subgroups. (English summary) **94b:20030**
van der Waall, Robert W. Finite groups whose subgroups of equal order are conjugate. **94h:20027**
Wang, Kun Ren π-$\mathscr{F}$ groups. (Chinese. English and Chinese summaries) **94e:20027**
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Bianchi, Maria Grazia (*with* Gillio Berta Mauri, Anna; Verardi, Libero) On Hawkes-Isaacs-Özaydin's conjecture. (Italian summary) **94m:20043**
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Kuisch, Eric B. Sylow p-subgroups of solvable Camina pairs. **94e:20030**
Nakamura, Kirio Automorphismengruppen der endlichen Gruppen. [Automorphism groups of finite groups] **94i:20036**
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Zhang, Ji Ping Some results on p-blocks of solvable groups. (English and Chinese summaries) **94k:20017**
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Zhao, Yan Ping S-seminormal subgroups and supersolvable subgroups. (Chinese. English and Chinese summaries) **94k:20067**
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20D15 Nilpotent groups, p-groups

Brandl, Rolf (*with* Verardi, Libero) Metacyclic p-groups and their conjugacy classes of subgroups. **94h:20028**
Caranti, A. (*with* Gavioli, N.; Mattarei, Sandro) Subgroups of finite p-groups inducing the same permutation character. **94k:20033**
Dixon, John D. (*with* Kovács, L. G.) Generating finite nilpotent irreducible linear groups. **94b:20031**
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Li, Shi Rong Finite groups with a system of nilpotent subgroups. (English summary) **94e:20029**
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Menegazzo, Federico Automorphisms of p-groups with cyclic commutator subgroup. (English summary) **94j:20018**
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Vaughan-Lee, Michael (*with* Zel'manov, E. I.) Upper bounds in the restricted Burnside problem. **94j:20019**
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Vesanen, Ari On p-groups as loop groups. **94h:20029**
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Schneps, Leila On reduction of p-groups. (English summary) **94d:12005**
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20D20 Sylow subgroups, Sylow properties, π-groups, π-structure

Arregi Lizarraga, Jesús María *see* **Vera López, Antonio, 94m:20052**
Asaad, Mohamed (*with* Ramadan, M.) On the hypercenter, hyperquasicenter and generalized hypercenter of finite groups. (English summary) **94d:20016**
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Iranzo, M. J. (*with* Martínez Pastor, A.; Pérez Monasor, F.) A ZJ-theorem for p^*, p-injectors in finite groups. **94a:20036**
Kimmerle, Wolfgang (*with* Sandling, Robert) The determination of abelian Hall subgroups by a conjugacy class structure. (English summary) **94f:20038**
Kuisch, Eric B. Sylow p-subgroups of solvable Camina pairs. **94e:20030**
Mark, Peter D. Parallel computation of Sylow subgroups in solvable groups. (English summary) **94k:20035**
Martínez Pastor, A. *see* **Iranzo, M. J.; et al., 94a:20036**
Pérez Monasor, F. *see* **Iranzo, M. J.; et al., 94a:20036**
Puusemp, Peeter Connection between Sylow subgroups of symmetric group and their semigroups of endomorphism. (English, Russian and Estonian summaries) **94j:20020**
Ramadan, M. *see* **Asaad, Mohamed, 94d:20016**
Robinson, Geoffrey R. *see* **Guralnick, Robert M., 94i:20034**
Sandling, Robert *see* **Kimmerle, Wolfgang, 94f:20038**
Thévenaz, Jacques Most finite groups are p-nilpotent. **94i:20035**
Vera López, Antonio (*with* Arregi Lizarraga, Jesús María) Conjugacy classes in Sylow p-subgroups of $GL(n, q)$. IV. **94m:20052**
Xiao, Wen Jun On a problem of Sergienko. (English summary) **94c:20038**
Zenkov, V. I. The structure of intersections of nilpotent π-subgroups in π-solvable finite groups. (Russian. English and Russian summaries) **94g:20023**
Zhu, De Gao The Sylow q-subgroup of $GL(n, F_p)$. (Chinese. English and Chinese summaries) **94g:20024**

Items with secondary classifications in 20D20

Brandl, Rolf (*with* Shi, Wu Jie) The characterization of $PSL(2, q)$ by its element orders. (English summary) **94m:20055**
Isaacs, I. M. Characters and Hall subgroups of groups of odd order. **94g:20014**
Johnson, Peter Malcolm A property of factorizable groups. **94d:20043**
Savitskiĭ, V. G. On Knutson's conjecture on the irreducible characters of finite groups. (Russian) **94c:20019**
Shi, Wu Jie *see* **Brandl, Rolf, 94m:20055**
Yoshida, Tomoyuki $|\mathrm{Hom}(A, G)|$. (English summary) **94j:20024**

20D25 Special subgroups (Frattini, Fitting, etc.)

Ahlbrandt, Gisela (*with* Ziegler, Martin) Invariant subgroups of ${}^VV$. **94d:20017**
Asaad, Mohamed (*with* Ramadan, M.) On the intersection of maximal subgroups of a finite group. **94f:20039**
Bhattacharyya, A. *see* **Dutta, Tapan Kumar[1], 94a:20037**
Carocca, Angel (*with* Maier, Rudolf) The p-Huppert-subgroup and the set of p-quasi-superfluous elements in a finite group. (English summary) **94f:20040**
Dutta, Tapan Kumar[1] (*with* Bhattacharyya, A.) A generalisation of Frattini subgroup. (English summary) **94a:20037**
Maier, Rudolf *see* **Carocca, Angel, 94f:20040**
Nakamura, Kirio Der Unterschied der Untergruppenstrukturen zwischen [in] der ganzen Gruppe und den sie erzeugenden zwei Gruppen. [The difference in subgroup structures between the whole group and two subgroups that generate it]
Ramadan, M. *see* **Asaad, Mohamed, 94f:20039**
Zhu, De Gao The conditions for every group of a given order to be an LM-group. (Chinese. English and Chinese summaries)
Ziegler, Martin *see* **Ahlbrandt, Gisela, 94d:20017**

Items with secondary classifications in 20D25

Ercan, Gülin (*with* Güloğlu, İsmail Ş.) On the Fitting length of $H_n(G)$. **94f:20035**
Güloğlu, İsmail Ş. *see* **Ercan, Gülin, 94f:20035**
Zenkov, V. I. A uniqueness theorem and intersections of nilpotent subgroups in finite groups. (Russian. Russian summary) **94h:20030**

20D30 Series and lattices of subgroups

Brandl, Rolf (*with* Verardi, Libero) Finite simple groups with few conjugacy classes of subgroups. **94d:20018**
Brewster, Ben (*with* Ward, Michael B.; Zimmermann, Irene) Finite groups having chain difference one. **94j:20021**
Brozovic, Douglas (*with* Solomon, Ronald) A survey on chains of subgroups. **94e:20031**
Lucchini, Andrea Intervals in subgroup lattices of finite groups. **94k:20036**
Pahlings, Herbert On the Möbius function of a finite group. **94c:20039**
Solomon, Ronald *see* **Brozovic, Douglas, 94e:20031**
Tuccillo, Fernando On a class of groups whose lattice of normal subgroups is distributive. **94h:20031**
Verardi, Libero *see* **Brandl, Rolf, 94d:20018**
Walter, Erich Reichhaltige Intervalle in Untergruppenverbänden. (English summary) [Rich intervals in subgroup lattices] **94c:20040**
Ward, Michael B. *see* **Brewster, Ben; et al., 94j:20021**
Zimmermann, Irene *see* **Brewster, Ben; et al., 94j:20021**

Items with secondary classifications in 20D30

Aschbacher, Michael (*with* Smith, Stephen D.) On Quillen's conjecture for the p-groups complex. **94g:20073**
Smith, Stephen D. *see* **Aschbacher, Michael, 94g:20073**
Thévenaz, Jacques Most finite groups are p-nilpotent. **94i:20035**
Wang, Pin Chao Sufficient conditions for QCLT groups to be supersolvable groups. (Chinese. English and Chinese summaries) **94h:20045**
Weidner, Michael (*with* Welker, Volkmar) The combinatorics and the homology of the poset of subgroups of p-power index. (English summary) **94i:05112**
Welker, Volkmar *see* **Weidner, Michael, 94i:05112**

20D35 Subnormal subgroups

Chen, Zhong Mu Finite groups whose minimal p-subgroups are seminormal. (English summary) **94k:20037**
Li, Shi Rong On minimal subgroups of finite groups. (English summary) **94k:20038**

Items with secondary classifications in 20D35

Kamornikov, S. F. On some properties of the formation of quasinilpotent groups. (Russian) **94f:20069**

20D40 Products of subgroups

Fisman, Elsa Products of solvable subgroups of a finite group. **94k:20039**
Kazarin, L. S. Finite ABA-groups with a cyclic subgroup B. (Russian) **94f:20041**
Stonehewer, Stewart E. On finite dinilpotent groups. **94j:20022**
Tyutyanov, V. N. Products of simple nonabelian groups. (Russian) **94g:20025**

Items with secondary classifications in 20D40

Amberg, Bernhard (*with* Franciosi, Silvana; de Giovanni, Francesco) ★ Products of groups. **94h:20001**
Franciosi, Silvana *see* **Amberg, Bernhard; et al., 94h:20001**
de Giovanni, Francesco *see* **Amberg, Bernhard; et al., 94h:20001**
Ramadan, M. (*with* Rashwan, O. A.) On the supersolvability of finite groups. (English summary) **94m:20049**
Rashwan, O. A. *see* **Ramadan, M., 94m:20049**
Wang, Pin Chao A problem on products of two supersolvable subgroups of a finite group. (Chinese. English summary) **94e:20028**

20D45 Automorphisms

Ballester-Bolinches, A. (*with* Pérez-Ramos, M. D.) Injective Fitting sets in automorphism groups. **94d:20019**
Huang, Ping An Finite groups with automorphism groups of order p^2q. (Chinese. English and Chinese summaries) **94g:20026**
Kamornikov, S. F. f-stable groups of automorphisms of finite groups. (Russian. English and Russian summaries) **94f:20042**
Nakamura, Kirio Automorphismengruppen der endlichen Gruppen. [Automorphism groups of finite groups] **94i:20036**
Pérez-Ramos, M. D. *see* **Ballester-Bolinches, A., 94d:20019**

Items with secondary classifications in 20D45

Fisman, Elsa Products of solvable subgroups of a finite group. **94k:20039**
Kimmerle, Wolfgang (*with* Sandling, Robert) The determination of abelian Hall subgroups by a conjugacy class structure. (English summary) **94f:20038**
Lam, Tsit Yuen (*with* Leep, David B.) Combinatorial structure on the automorphism group of S_6. **94i:20006**
Leep, David B. *see* **Lam, Tsit Yuen, 94i:20006**
Menegazzo, Federico Automorphisms of p-groups with cyclic commutator subgroup. (English summary) **94j:20018**
Murai, Masafumi Characterizations of p-nilpotent groups. **94m:20023**
Peterson, Gary Lee Endomorphism near-rings of p-groups generated by the automorphism and inner automorphism groups. **94a:16079**
Sandling, Robert *see* **Kimmerle, Wolfgang, 94f:20038**
Shalev, Aner On almost fixed point free automorphisms. (English summary) **94g:20035**

20D50 Covering of subgroups

Items with secondary classifications in 20D50

Brodie, Marc A. (*with* Kappe, Luise-Charlotte) Finite coverings by subgroups with a given property. **94f:20077**
Kappe, Luise-Charlotte *see* **Brodie, Marc A., 94f:20077**

20D60 Arithmetic and combinatorial problems

Adami, S. (*with* Bianchi, Maria Grazia; Verardi, Libero) Finite groups whose noncentral elements have p-power bounded centralizers. (English summary) **94m:20053**
Anderson, B. A. (*with* Ihrig, E. C.) Symmetric sequencings of nonsolvable groups. (English summary) **94m:20054**
Asai, Tsunenobu (*with* Yoshida, Tomoyuki) $|\mathrm{Hom}(A, G)|$. II. (English summary) **94j:20025**

Bedford, David A partial solution to a question raised by R. L. Graham. (English summary) **94k:20040**
Bianchi, Maria Grazia (*with* Gillio Berta Mauri, Anna; Herzog, Marcel) Groups with noncentral classes of distinct lengths. (Italian summary) **94k:20041**
— *see also* **Adami, S.; et al., 94m:20053**
Brailovsky, L. On $(3, m)$-special elements in groups. **94f:20043**
Brandl, Rolf (*with* Shi, Wu Jie) The characterization of $\mathrm{PSL}(2, q)$ by its element orders. (English summary) **94m:20055**
Casolo, Carlo Finite groups with small conjugacy classes. (English summary) **94m:20056**
Chillag, David (*with* Herzog, Marcel; Mann, Avinoam) On the diameter of a graph related to conjugacy classes of groups. (English summary) **94a:20038**
Corrádi, Keresztély (*with* Szabó, Sándor) A generalized form of Hajós' theorem. (English summary) **94f:20044**
— (*with* Szabó, Sándor) Factoring by subsets of cardinality of prime power. (English summary) **94f:20045**
Dalla Volta, F. (*with* Gavioli, N.) Complete mappings in some linear and projective groups. **94g:20027**
Davis, James Andrew Almost difference sets and reversible divisible difference sets. **94e:20032**
— (*with* Jedwab, Jonathan) A note on new semi-regular divisible difference sets. (English summary) **94f:20046**
Dénes, József (*with* Yff, P.) Some research problems on finite groups. (English summary) **94d:20020**
Gambini Weigel, A. (*with* Weigel, Thomas S.) On the orders of primitive linear p'-groups. (English summary) **94k:20042**
Gavioli, N. *see* **Dalla Volta, F., 94g:20027**
Geroldinger, Alfred On a conjecture of Kleitman and Lemke. (English summary) **94c:20041**
Gillio Berta Mauri, Anna *see* **Bianchi, Maria Grazia; et al., 94k:20041**
Glauberman, George (*with* Norton, Simon P.) On a combinatorial problem associated with the odd order theorem. **94a:20039**
Hachenberger, Dirk On a combinatorial problem in group theory. (English summary) **94i:20037**
Herzog, Marcel Conjugacy classes in finite groups. (English and Italian summaries) **94d:20021**
— (*with* Longobardi, Patrizia; Maj, Mercede) On a combinatorial problem in group theory. (English summary) **94h:20032**
— *see also* **Chillag, David; et al., 94a:20038** *and* **Bianchi, Maria Grazia; et al., 94k:20041**
Ihrig, E. C. *see* **Anderson, B. A., 94m:20054**
Jedwab, Jonathan *see* **Davis, James Andrew, 94f:20046**
Kovács, L. G. (*with* Robinson, Geoffrey R.) On the number of conjugacy classes of a finite group. **94m:20057**
Leonard, Philip A. *see* **Wang, Cheng De, 94j:20023**
Longobardi, Patrizia *see* **Herzog, Marcel; et al., 94h:20032**
Maj, Mercede *see* **Herzog, Marcel; et al., 94h:20032**
Mann, Avinoam *see* **Chillag, David; et al., 94a:20038**
Nekrasov, K. G. Nonnilpotent finite groups with sufficiently many involutions. II. (Russian) **94e:20033**
— Nonnilpotent finite groups with sufficiently many involutions. III. (Russian) **94c:20042**
Nielsen, Jeanne Rewritable sequencing of groups. (English summary) **94m:20058**
Norton, Simon P. *see* **Glauberman, George, 94a:20039**
Robinson, Geoffrey R. *see* **Kovács, L. G., 94m:20057**
Shi, Wu Jie A class of special finite groups. **94i:20038**
— *see also* **Brandl, Rolf, 94m:20055**
Skałba, Mariusz The relative Davenport's constant of the group $Z_n \times Z_n$. **94e:20034**
Szabó, Sándor *see* **Corrádi, Keresztély, 94f:20044** *and* **94f:20045**
Verardi, Libero *see* **Adami, S.; et al., 94m:20053**
Wang, Cheng De On the harmoniousness of dicyclic groups. (English summary) **94d:20022**
— (*with* Leonard, Philip A.) On R^*-sequenceability and symmetric harmoniousness of groups. (English summary) **94j:20023**
Weigel, Thomas S. *see* **Gambini Weigel, A., 94k:20042**
Yff, P. *see* **Dénes, József, 94d:20020**
Yoshida, Tomoyuki $|\mathrm{Hom}(A, G)|$. (English summary) **94j:20024**
— *see also* **Asai, Tsunenobu, 94j:20025**

Items with secondary classifications in 20D60

Arad, Zvi (*with* Ehrlich, Gideon; Kegel, Otto H.) An application of Ramsey's theory to partition in groups. II. **94g:05092**
Arregi Lizarraga, Jesús María *see* **Vera López, Antonio, 94b:20048**
Baum, Ulrich (*with* Clausen, Michael; Tietz, Benno) Improved upper complexity bounds for the discrete Fourier transform. (English summary) **94f:65129**
Clausen, Michael *see* **Baum, Ulrich; et al., 94f:65129**
Corrádi, Keresztély (*with* Szabó, Sándor) A contribution to Keller's conjecture. (English summary) **94a:20088**
Ehrlich, Gideon *see* **Arad, Zvi; et al., 94g:05092**
Evans, Anthony B. The existence of complete mappings of finite groups. (English summary) **94e:05057**
Geroldinger, Alfred Arithmetical characterizations of divisor class groups. II. **94a:11169**
Iiyori, Nobuo A conjecture of Frobenius and the simple groups of Lie type. IV. **94d:20014**
— (*with* Yamaki, Hiroyoshi) Prime graph components of the simple groups of Lie type over the field of even characteristic. (English summary) **94e:05268**
— Sharp characters and prime graphs of finite groups. (English summary) **94m:20021**
Kegel, Otto H. *see* **Arad, Zvi; et al., 94g:05092**
Kraemer, Robert G. Proof of a conjecture on Hadamard 2-groups. (English summary) **94e:05052**
Li, Hui Ling (*with* Shi, Wu Jie) A characterization of some sporadic simple groups. (English summary) **94k:20026**
Liu, Hong Quan Supplement: "On the number of abelian groups of a given order" [Acta Arith. **59** (1991), no. 3, 261–277; MR 92i:11103]. **94g:11073**
Shi, Wu Jie *see* **Li, Hui Ling, 94k:20026**
Szabó, Sándor *see* **Corrádi, Keresztély, 94a:20088**
Tietz, Benno *see* **Baum, Ulrich; et al., 94f:65129**
Vera López, Antonio (*with* Arregi Lizarraga, Jesús María) Conjugacy classes in Sylow p-subgroups of $\mathrm{GL}(n, q)$. **94b:20048**
Yamaki, Hiroyoshi *see* **Iiyori, Nobuo, 94e:05268**
Yoshida, Tomoyuki Classical problems of group theory. I. Counting subgroups and homomorphisms. (Japanese. Japanese summary) **94k:20001**

20D99 None of the above, but in this section

Al-Ali, M. I. M. M. On the conjugacy classes of $p^2{:}\mathrm{GL}_2(p)$—"p odd prime". (English and Turkish summaries) **94m:20059**
Chen, Xuming (*with* Frohardt, Daniel E.) Normality in a Kantor family. (English summary) **94i:20039**
Frohardt, Daniel E. *see* **Chen, Xuming, 94i:20039**
Iiyori, Nobuo (*with* Yamaki, Hiroyoshi) Frobenius' conjecture. (Japanese)
Malone, J. J. More on endomorphism near-rings of dicyclic groups. (English summary) **94i:20040**
Rabier, Patrick J. Intrinsic isotropy subgroups of finite groups. (English summary) **94c:20043**
Shumyatskii, P. V. Elementary abelian operator groups. (English summary) **94i:20041**
Yamaki, Hiroyoshi *see* **Iiyori, Nobuo**
You, Tai Jie A generalization of a theorem of Ogarkov. (Chinese. English and Chinese summaries) **94k:20043**

Items with secondary classifications in 20D99

Fleischmann, Peter (*with* Janiszczak, Ingo; Lempken, Wolfgang) Finite groups have local non-Schur centralizers. **94j:20031**
Janiszczak, Ingo *see* **Fleischmann, Peter; et al., 94j:20031**
Lempken, Wolfgang *see* **Fleischmann, Peter; et al., 94j:20031**
Stanković, Radomir S. Gibbs derivatives on finite nonabelian groups. (English summary) **94a:43015**
Thomas, Richard M. Generating sets for finite groups. **94c:20058**

20Exx Structure and classification of infinite or finite groups

20E05 Free nonabelian groups

Bezverkhnii, V. N. On π-isolators of a free group. (Russian) **94h:20033**
Brunner, A. M. (*with* Burns, R. G.; Oates-Williams, Sheila) On almost primitive elements of free groups with an application to Fuchsian groups. (English summary) **94f:20047**
Burns, R. G. *see* **Brunner, A. M.; et al., 94f:20047**
Collins, D. J. (*with* Turner, E. C.) An automorphism of a free group of finite rank with maximal rank fixed point subgroup fixes a primitive element. (English summary) **94d:20023**
Durnev, V. G. Equations with constraints on the solutions in free groups. (Russian. Russian summary) **94f:20048**
Khramtsov, D. G. Outer automorphisms of free groups. (Russian) **94c:20044**
Kobayashi, Shigeru (*with* Sanami, Manabu) On a generalization of free calculus. (English summary) (*see* **94i:16002**)
Kramer, Peter Free groups, their automorphism groups, applications. (English summary) **94k:20044**
Oates-Williams, Sheila *see* **Brunner, A. M.; et al., 94f:20047**
Peyrière, Jacques (*with* Wen, Zhi Ying; Wen, Zhi Xiong) Polynômes associés aux endomorphismes de groupes libres. (English and French summaries) [Polynomials associated with endomorphisms of free groups] **94f:20049**
Sanami, Manabu *see* **Kobayashi, Shigeru,** (**94i:16002**)
Turner, E. C. *see* **Collins, D. J., 94d:20023**
Wen, Zhi Xiong *see* **Peyrière, Jacques; et al., 94f:20049**
Wen, Zhi Ying *see* **Peyrière, Jacques; et al., 94f:20049**

Items with secondary classifications in 20E05

Anokhin, M. I. Unrecognizability of some residual properties of relatively free groups. (Russian. Russian summary) **94d:20032**
Dicks, Warren (*with* Ventura, Enric) Irreducible automorphisms of growth rate one. **94i:20047**
Durnev, V. G. (*with* Zetkina, O. V.) On the positive theory of a free group in the signature extended by a length function. (Russian) **94f:20003**
Engler, Antonio José The m-ordered real free pro-2-group. Cohomological characterizations. **94c:20052**
Gersten, Steve M. The automorphism group of a free group is not a CAT(0) group. (English summary) **94j:20043**
Gupta, Narain (*with* Shpilrain, Vladimir) Nielsen's commutator test for two-generator groups. **94k:20057**
Khramtsov, D. G. Completeness of groups of outer automorphisms of free groups. (Russian) **94c:20066**
Kuhn, M. Gabriella (*with* Steger, Tim) Boundary representations of the free group. I, II. **94i:22018**
Melançon, Guy (*with* Reutenauer, Christophe) Computing Hall exponents in the free group. (English and French summaries) **94m:20076**
Moriah, Yoav (*with* Shpilrain, Vladimir) Nontame automorphisms of extensions of periodic groups. (English summary) **94k:20068**
Papistas, Athanassios I. Nontame automorphisms of free nilpotent groups of rank 2. **94b:20037**
Razborov, A. A. On the parameterization of solutions for equations in free groups. (English summary) **94k:20063**
Reutenauer, Christophe *see* **Melançon, Guy, 94m:20076**
Shpilrain, Vladimir *see* **Gupta, Narain, 94k:20057** *and* **Moriah, Yoav, 94k:20068**

Steger, Tim *see* **Kuhn, M. Gabriella, 94i:22018**
Ventura, Enric *see* **Dicks, Warren, 94i:20047**
Weigel, Thomas S. Residual properties of free groups. II. **94f:20058b**
— Residual properties of free groups. III. (English summary) **94f:20058c**
— Residual properties of free groups. (English summary) **94f:20058a**
Wicks, M. J. Automorphisms of the free group of rank two. **94b:20040**
Zetkina, O. V. *see* **Durnev, V. G., 94f:20003**

20E06 Free products, free products with amalgamation, Higman-Neumann-Neumann extensions, and generalizations

Allenby, R. B. J. T. (*with* Tang, Francis C. Y.) Subgroup separability of generalized free products of free-by-finite groups. (English summary) **94j:20026**
Alperin, Roger C. Free products of matrices. (English summary) **94k:20045**
Azarian, Mohammad K. On the lower near Frattini subgroups of amalgamated free products of groups. (English summary) **94k:20046**
Baumslag, Benjamin (*with* Levin, Frank; Rosenberger, Gerhard) A cyclically pinched product of free groups which is not residually free. **94c:20045**
Bezverkhnii, V. N. (*with* Bezverkhnyaya, I. S.) On the root closure of subgroups in HNN-groups. (Russian) **94k:20047**
Bezverkhnyaya, I. S. *see* **Bezverkhnii, V. N., 94k:20047**
Chebotar', A. A. On length functions and structures generated by them. (Russian. Russian summary) (*see* **94f:00014**)
Comerford, Leo P., Jr. (*with* Edmunds, Charles C.; Rosenberger, Gerhard) Commutators as powers in free products of groups. (English summary) **94k:20048**
Duncan, Andrew J. (*with* Howie, James) Spelling theorems and Cohen-Lyndon theorems for one-relator products. (English summary) **94m:20060**
Eda, Katsuya Free σ-products and non-commutatively slender groups. **94a:20040**
Edmunds, Charles C. *see* **Comerford, Leo P., Jr.; et al., 94k:20048**
Groves, J. R. J. HNN-extensions of finitely presented soluble groups. **94m:20061**
Hoare, A. H. M. (*with* Lai, M. K. F.) On automorphisms of free products. **94f:20050**
Howie, James Corrigendum: "The quotient of a free product of groups by a single high-powered relator. I, II" [Proc. London Math. Soc. (3) **59** (1989), no. 3, 507–540; MR 90j:20055; Proc. London Math. Soc. (3) **61** (1990), no. 1, 33–62; MR 91d:20033]. **94b:20032**
— *see also* **Duncan, Andrew J., 94m:20060**
Kim, Goansu (*with* McCarron, James) On amalgamated free products of residually p-finite groups. (English summary) **94k:20049**
Lai, M. K. F. *see* **Hoare, A. H. M., 94f:20050**
Levin, Frank *see* **Baumslag, Benjamin; et al., 94c:20045**
Mahmood, R. M. S. A remark on HNN groups. (English summary) **94d:20024**
McCarron, James *see* **Kim, Goansu, 94k:20049**
Meierfrankenfeld, Ulrich (*with* Stellmacher, Bernd) Pushing up weak BN-pairs of rank two. **94d:20025**
Nedzel'skii, M. M. On the Hopf property of HNN-extensions of groups. (Russian. Russian summary) (*see* **94d:00011**)
Rosenberger, Gerhard *see* **Baumslag, Benjamin; et al., 94c:20045** *and* **Comerford, Leo P., Jr.; et al., 94k:20048**
Stallings, John R. Non-positively curved triangles of groups. **94b:20033**
Stellmacher, Bernd *see* **Meierfrankenfeld, Ulrich, 94d:20025**
Tang, Francis C. Y. *see* **Allenby, R. B. J. T., 94j:20026**
Thiel, Hermann $SL_3(2^n)$ as a completion of an amalgam of type $L_3(2)$. **94c:20046**
Wong, P. C. Subgroup separability of certain HNN extensions. (English summary) **94i:20042**

Items with secondary classifications in 20E06

Baumslag, Gilbert ★ Topics in combinatorial group theory. (English summary) **94j:20034**
Bezverkhnii, V. N. Solution of the occurrence problem in a certain class of groups. II. (Russian) **94a:20054**
Collins, D. J. (*with* Turner, E. C.) An automorphism of a free group of finite rank with maximal rank fixed point subgroup fixes a primitive element. (English summary) **94d:20023**
— (*with* Edjvet, M.; Gill, C. P.) Growth series for the group $\langle x, y \mid x^{-1}yx = y^l \rangle$. **94m:20072**
Edjvet, M. *see* **Collins, D. J.; et al., 94m:20072**
Farr, Graham E. *see* **Horadam, K. J., 94f:20067**
Gill, C. P. *see* **Collins, D. J.; et al., 94m:20072**
Horadam, K. J. (*with* Farr, Graham E.) The conjugacy problem for HNN extensions with infinite cyclic associated groups. (English summary) **94f:20067**
Kaufmann, Ralf (*with* Zieschang, Heiner) On the rank of NEC groups. (English summary) **94c:20069**
Kim, Goansu Cyclic subgroup separability of HNN extensions. **94k:20054**
Kropholler, Peter H. A group-theoretic proof of the torus theorem. **94i:57029**
Mazurovskii, V. F. The word problem for anomalous products of groups. (Russian. Russian summary) **94m:20075**
Meier, John Automorphisms of negatively curved polygonal amalgams. **94m:20081**
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20E22 Extensions, wreath products, and other compositions [see also 20J05]

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20E28 Maximal subgroups

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20E36 General theorems concerning automorphisms of groups

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Khukhro, E. I. ★ Nilpotent groups and their automorphisms. **94g:20046**
Krstić, Sava (*with* Vogtmann, Karen) Equivariant outer space and automorphisms of free-by-finite groups. **94c:20067**
Lennox, John C. (*with* Wiegold, James) On a question of Deaconescu about automorphisms. **94f:20073**
Moore, Marion E. (*with* Winton, Richard A.) On subdirectly irreducible groups and automorphism groups. (English summary) **94j:20027**
Sehgal, Sudarshan K. *see* **Giambruno, Antonio, 94a:20049**
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Żabka, Marek Weak automorphisms of the permutation groups S_n. **94k:20007**

20E42 Groups with a BN-pair; buildings [see also 51E24]

Bennett, Curtis D. Affine A-buildings. I. **94m:20068**
Fisher, Tony J. Weight operators and group geometries. (English summary) **94h:20038**
Meier, John Endomorphisms of discrete groups acting chamber transitively on affine buildings. (English summary) **94i:20048**
Ronan, M. A. (*with* Tits, Jacques) Twin trees. I. **94k:20058**
Timmesfeld, F. G. Groups generated by k-root subgroups—a survey. **94f:20060**
Tits, Jacques Twin buildings and groups of Kac-Moody type. **94d:20030**
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Han, Juncheol Multiplicative group in a finite ring. **94h:16030**
Khammash, Ahmed A. On the homological construction of the Steinberg representation. (English summary) **94g:20015**
Lehrer, G. I. (*with* Rylands, L. J.) The split building of a reductive group. **94g:20064**
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Meierfrankenfeld, Ulrich (*with* Stellmacher, Bernd) Pushing up weak BN-pairs of rank two. **94d:20025**
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Shi, Zhiyong Groups graded by finite root systems. (English summary) **94a:20075**
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Taylor, Donald E. ★ The geometry of the classical groups. **94d:20028**

20E99 None of the above, but in this section

Nobusawa, Nobuo Central extensions of the symmetric core of a group. **94j:20033**
Shunkov, V. P. A sufficient condition for the existence of a 2-complete part in a group. (Russian. Russian and Ukrainian summaries) **94c:20056**

Tamura, Takayuki Notes on construction of subdirect products of groups of integers. II. (*see* **94d:20002**)

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Linnell, Peter A. An example concerning the Bass conjecture. **94c:20088**

20Fxx Special aspects of infinite or finite groups

20F05 Generators, relations, and presentations

Albar, Muhammad A. (*with* Al-Hamdan, Walid M.) The triangle groups. (English summary) **94f:20061**

Al-Hamdan, Walid M. *see* **Albar, Muhammad A., 94f:20061**

Aydin, Huseyin (*with* Smith, Geoff C.) Finite p-quotients of some cyclically presented groups. **94k:20059**

Babai, László (*with* Goodman, Albert J.) Subdirectly reducible groups and edge-minimal graphs with given automorphism group. (English summary) **94d:20031**

Baik, Young-Gheel (*with* Howie, James; Pride, Stephen J.) The identity problem for graph products of groups. **94i:20049**

Baumslag, Gilbert ★ Topics in combinatorial group theory. (English summary) **94j:20034**

Bridson, Martin R. On the geometry of normal forms in discrete groups. (English summary) **94g:20036**

Burns, R. G. (*with* Macedońska, Olga) Balanced presentations of the trivial group. **94i:20050**

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Curtis, R. T. Symmetric presentations. I. Introduction, with particular reference to the Mathieu groups M_{12} and M_{24}. (English summary) **94b:20038**

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D'Agostino, Giovanna Cayley graphs of virtually free groups. (English summary) **94g:20037**

Duchamp, G. (*with* Krob, Daniel) Partially commutative Magnus transformations. (English and French summaries) **94e:20041**

Evans, Martin J. Presentations of groups involving more generators than are necessary. **94f:20062**

Fine, Benjamin L. (*with* Rosenberger, Gerhard; Stille, Michael) Euler characteristic for one-relator products of cyclics. **94j:20035**

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Galvin, Fred Embedding countable groups in 2-generator groups. **94f:20063**

Goodman, Albert J. *see* **Babai, László, 94d:20031**

Gupta, Chander Kanta (*with* Shpilrain, Vladimir) The centre of a one-relator solvable group. **94k:20061**

Hermiller, Susan M. Rewriting systems for Coxeter groups. (English summary) **94k:20062**

Holt, Derek F. (*with* Rees, Sarah) Testing for isomorphism between finitely presented groups. **94a:20051**

— (*with* Plesken, W.) A cohomological criterion for a finitely presented group to be infinite. **94c:20057**

— (*with* Rees, Sarah) Software for automatic groups, isomorphism testing and finitely presented groups. **94h:20040**

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— (*with* Thomas, Richard M.) The groups $(2, 3, p; q)$; asphericity and a conjecture of Coxeter. **94a:20052**

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Huynh, H.-L. (*with* Poon, Wing Yew) Quasi-isometries and bicombings. (English summary) **94f:20064**

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Lustig, Martin (*with* Moriah, Yoav) $\mathscr{N}$-torsion and applications. **94g:20039**

— (*with* Moriah, Yoav) Generating systems of groups and Reidemeister-Whitehead torsion. **94e:20042**

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Moriah, Yoav *see* **Lustig, Martin, 94e:20042** *and* **94g:20039**

Mushtaq, Qaiser (*with* Shaheen, F.) Factor groups of $G^{6,6,6}$ through coset diagrams for an action on $\mathrm{PL}(F_q)$. (English summary) **94m:20069**

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Parry, Walter Growth series of Coxeter groups and Salem numbers. **94e:20043**

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Thomas, Richard M. Generating sets for finite groups. **94c:20058**

— *see also* **Howie, James, 94a:20052** *and* **94h:20041**

Vatansever, Bilal (*with* Robertson, Edmund F.) A new efficient presentation for $\mathrm{PSL}(2, 13)$ and the structure of the groups $G(7, m)$. (English and Turkish summaries) **94f:20065**

Virotte-Ducharme, Marguerite-Marie Présentation de certains couples fischériens de type classique. (English and French summaries) [Presentation of certain classical Fischer pairs] **94c:20059**

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Collins, D. J. (*with* Edjvet, M.; Gill, C. P.) Growth series for the group $\langle x, y \mid x^{-1}yx = y^l \rangle$. **94m:20072**

Conway, J. H. From hyperbolic reflections to finite groups. **94h:20023**

Di Martino, L. (*with* Tamburini Bellani, Maria Chiara) 2-generation of finite simple groups and some related topics. (English summary) **94b:20001**

— *see also* **Cazzola, M., 94a:20079**

Edjvet, M. *see* **Collins, D. J.; et al., 94m:20072**

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Grady, Michael (*with* Newman, Morris) Counting subgroups of given index in Hecke groups. **94h:11040**

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Hayashi, Chuya The word problem for groups with regular relations—improvement of the Knuth-Bendix algorithm. (English summary) **94c:20060**

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Kantor, William M. Some topics in asymptotic group theory. **94a:20031**

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Magaard, Kay Monodromy and sporadic groups. **94j:20014**

Makanina, A. G. New systems of defining relations of the braid group. **94k:20071**

— Defining relations of the colored braid group. (Russian. Russian summary) **94f:20076**

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— (*with* Aslam, M.) Group generated by two elements of orders 2 and 4 acting on real quadratic fields. (English summary) **94g:20067**

Newman, Morris *see* **Grady, Michael, 94h:11040**

Obraztsov, V. N. Growth sequences of 2-generator simple groups. (English summary) **94k:20055**

Ol'shanskii, A. Yu. On residualing homomorphisms and G-subgroups of hyperbolic groups. **94i:20069**

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— (*with* Tanasi, Corrado) k-weakly almost convex groups and $\pi_1^\infty \widetilde{M}^3$. (English summary) **94k:57003**

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Storozhev, A. M. A finitely based variety in which all periodic groups are abelian. (Russian) **94c:20048**

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Wicks, M. J. Automorphisms of the free group of rank two. **94b:20040**

Wilson, John S. On finitely presented soluble groups with small abelian-by-finite images. **94b:20046**

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20F06 Cancellation theory; application of van Kampen diagrams [see also 57M05]

Champetier, Christophe Cocroissance des groupes à petite simplification. (English summary) [Cogrowth of groups with small cancellation] **94i:20052**
Gersten, Steve M. Isoperimetric and isodiametric functions of finite presentations. **94f:20066**
Juhász, Arye Some applications of small cancellation theory to one-relator groups and one-relator products. **94h:20042**

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Bridson, Martin R. On the geometry of normal forms in discrete groups. (English summary) **94g:20036**
Corson, Jon Michael Conformally nonspherical 2-complexes. **94k:57006**
Farb, Benson The extrinsic geometry of subgroups and the generalized word problem. **94m:20073**
Juhász, Arye Solution of the conjugacy problem in one-relator groups. **94i:20055**
Miller, Charles F., III *see* **Baumslag, Gilbert; et al., 94i:20053**
Obraztsov, V. N. Growth sequences of 2-generator simple groups. (English summary) **94k:20055**
Ol'shanskiĭ, A. Yu. On residualing homomorphisms and G-subgroups of hyperbolic groups. **94i:20069**
Sela, Zlil Uniform embeddings of hyperbolic groups in Hilbert spaces. (English summary) **94j:57004**
Short, H. *see* **Baumslag, Gilbert; et al., 94i:20053**

20F10 Word problems, other decision problems, connections with logic and automata [see also 03B25, 03D05, 03D40, 06B25, 08A50, 68Qxx]

Anokhin, M. I. Unrecognizability of some residual properties of relatively free groups. (Russian. Russian summary) **94d:20032**
Azarov, D. N. On an equation over a cyclic group. (Russian. Russian summary) (*see* **94d:00011**)
Baumslag, Gilbert (*with* Gersten, Steve M.; Shapiro, Michael David; Short, H.) Automatic groups and amalgams—a survey. **94g:20040**
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Bezverkhniĭ, V. N. Solution of the occurrence problem in a certain class of groups. II. (Russian) **94a:20054**
Brazil, Marcus Growth functions for some nonautomatic Baumslag-Solitar groups. **94c:20044**
Bridson, Martin R. (*with* Gilman, Robert H.) A remark about combings of groups. (English summary) **94j:20036**
Brown, Kenneth S. The geometry of rewriting systems: a proof of the Anick-Groves-Squier theorem. (English summary) **94g:20041**
Casselman, William A. Machine calculations in Weyl groups. (English summary) **94j:20037**
Collins, D. J. (*with* Edjvet, M.; Gill, C. P.) Growth series for the group $\langle x, y \mid x^{-1}yx = y^l \rangle$. **94m:20072**
Durnev, V. G. On equations in words and lengths with endomorphisms. (Russian) **94i:20054**
Edjvet, M. *see* **Collins, D. J.; et al., 94m:20072**
Farb, Benson The extrinsic geometry of subgroups and the generalized word problem. **94m:20073**
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Gersten, Steve M. Problems on automatic groups. **94g:20042**
— *see also* **Baumslag, Gilbert; et al., 94g:20040**
Gill, C. P. *see* **Collins, D. J.; et al., 94m:20072**
Gilman, Robert H. *see* **Bridson, Martin R., 94j:20036**
Grigorchuk, R. I. (*with* Kurchanov, P. F.) On quadratic equations in free groups. **94m:20074**
— (*with* Lysënok, I. G.) A description of solutions of quadratic equations in hyperbolic groups. (English summary) **94d:20033**
Gupta, Chander Kanta (*with* Noskov, G. A.) Conjugacy in centre-by-metabelian groups. (English summary) **94e:20045**
Hayashi, Chuya The word problem for groups with regular relations—improvement of the Knuth-Bendix algorithm. (English summary) **94c:20060**
Horadam, K. J. (*with* Farr, Graham E.) The conjugacy problem for HNN extensions with infinite cyclic associated groups. (English summary) **94f:20067**
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Khramtsov, D. G. Finite graphs of groups with isomorphic fundamental groups. (Russian. Russian summary) **94g:20043**
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Makanin, G. S. Investigations on equations in a free group. **94f:20068**
Mazurovskiĭ, V. F. The word problem for anomalous products of groups. (Russian. Russian summary) **94m:20075**
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Sims, Charles C. Complexity issues in infinite group theory. (English summary) **94k:20064**
Swarup, Gadde A. Geometric finiteness and rationality. (English summary) **94i:20058**

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Alonso, Juan M. Combings of groups. (English summary) **94g:20048**
(Baumslag, Gilbert) *see* **Algorithms and classification in combinatorial group theory, 94b:20002**
Benardete, Diego (*with* Gutiérrez, Mauricio; Nitecki, Zbigniew) A combinatorial approach to reducibility of mapping classes. (English summary) **94i:57025**
Brazil, Marcus Growth functions for some one-relator monoids. **94f:20110**
Bridson, Martin R. Regular combings, nonpositive curvature and the quasiconvexity of abelian subgroups. (English summary) **94f:20074**
Brink, Brigitte (*with* Howlett, Robert B.) A finiteness property and an automatic structure for Coxeter groups. **94d:20045**
Burke, E. K. The undecidability of the unification problem for nilpotent groups of class ≥ 5. (English summary) **94f:03054**
Grigorchuk, R. I. (*with* Maki, A.) On a group of intermediate growth that acts on a line by homeomorphisms. (Russian) **94c:20008**
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Herbst, Thomas (*with* Thomas, Richard M.) Group presentations, formal languages and characterizations of one-counter groups. (English summary) **94m:20135**
Hoare, A. H. M. (*with* Lai, M. K. F.) On automorphisms of free products. **94f:20050**
Howlett, Robert B. *see* **Brink, Brigitte, 94d:20045**
Huck, Günther (*with* Rosebrock, Stephan) A bicombing that implies a sub-exponential isoperimetric inequality. (English summary) **94k:20069**
Justin, Jacques (*with* Pirillo, Giuseppe) Intracommutativity properties for groups and semigroups. **94a:20099**
Kościelski, Antoni An analysis of Makanin's algorithm deciding solvability of equations in free groups. (English summary) **94k:03056**
Lai, M. K. F. *see* **Hoare, A. H. M., 94f:20050**
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Berkeley, CA ★ Algorithms and classification in combinatorial group theory. **94b:20002**
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Algorithms, Word Problems and Classification in Combinatorial Group Theory
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20F12 Commutator calculus

Longobardi, Patrizia (*with* Maj, Mercede) A finiteness condition concerning commutators in groups. **94k:20065**
Maj, Mercede *see* **Longobardi, Patrizia, 94k:20065**
Melançon, Guy (*with* Reutenauer, Christophe) Computing Hall exponents in the free group. (English and French summaries) **94m:20076**
Reutenauer, Christophe *see* **Melançon, Guy, 94m:20076**

Items with secondary classifications in 20F12

Endimioni, Gérard Sur la résolubilité des 2-groupes. (English and French summaries) [On the solvability of 2-groups] **94g:20029**
Gupta, Narain (*with* Shpilrain, Vladimir) Nielsen's commutator test for two-generator groups. **94k:20057**
Heislbetz, Hans Peter Über t-uniforme Gruppen. [On t-uniform groups] **94h:20044**
Shpilrain, Vladimir *see* **Gupta, Narain, 94k:20057**

20F14 Derived series, central series, and generalizations

Gupta, Narain (*with* Tahara, Ken-Ichi) The seventh and eighth Lie dimension subgroups. (English summary) **94k:20066**
Tahara, Ken-Ichi *see* **Gupta, Narain, 94k:20066**

Items with secondary classifications in 20F14

Puglisi, Orazio Homomorphic images of finitary linear groups. **94e:20054**
Shalev, Aner On almost fixed point free automorphisms. (English summary) **94g:20035**
Tomkinson, M. J. Major subgroups of nilpotent-by-finite groups. (English and Ukrainian summaries) **94a:20045**
Zerck, Rainer On the fixed points of the Lie algebras associated with a free group presentation. **94e:17036**

20F16 Solvable groups, supersolvable groups

Beidleman, James C. (*with* Smith, Howard) Corrigendum: "On Frattini-like subgroups" [Glasgow Math. J. **35** (1993), no. 1, 95–98; MR 93k:20054]. **94g:20044**
Bryce, R. A. The subgroups of Baer and Hughes. **94i:20059**

Duan, Ze Yong (*with* Tomkinson, M. J.) The decomposition of minimax modules over hyperfinite groups. **94g:20045**
Franciosi, Silvana (*with* de Giovanni, Francesco) Groups with many supersoluble subgroups. (English summary) **94a:20055**
de Giovanni, Francesco *see* **Franciosi, Silvana, 94a:20055**
Groves, J. R. J. (*with* Smith, Geoff C.) Soluble groups with a finite rewriting system. (English summary) **94e:20046**
Heisslbetz, Hans Peter Über t-uniforme Gruppen. [On t-uniform groups] **94h:20044**
Kepka, Tomáš *see* **Niemenmaa, Markku, 94m:20077**
Li, Xian Hua Nonsolvable groups characterized by quasisupersolvable subgroups. (Chinese. Chinese summary) **94j:20038**
Longobardi, Patrizia (*with* Maj, Mercede) Finitely generated soluble groups with an Engel condition on infinite subsets. **94i:20060**
Maj, Mercede *see* **Longobardi, Patrizia, 94i:20060**
Niemenmaa, Markku (*with* Kepka, Tomáš) On connected transversals to abelian subgroups. (English summary) **94m:20077**
Robinson, Derek J. S. (*with* Stonehewer, Stewart E.) Triple factorizations by abelian groups. **94d:20034**
Segal, Daniel (*with* Shalev, Aner) Groups with fractionally exponential subgroup growth. (English summary) **94e:20047**
Shalev, Aner *see* **Segal, Daniel, 94e:20047**
Shchuchkin, N. A. Solvable and nilpotent n-groups. (Russian) **94e:20048**
Smith, Geoff C. *see* **Groves, J. R. J., 94e:20046**
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Titov, G. N. Groups with complemented nonquasinormal subgroups. (Russian) **94c:20061**
Tomkinson, M. J. *see* **Duan, Ze Yong, 94g:20045**
Wang, Pin Chao Sufficient conditions for QCLT groups to be supersolvable groups. (Chinese. English and Chinese summaries) **94h:20045**
— Some sufficient conditions for supersolvable groups. (Chinese. English and Chinese summaries)
Wilson, John S. On finitely presented soluble groups with small abelian-by-finite images. **94h:20046**
Zhao, Yan Ping S-seminormal subgroups and supersolvable subgroups. (Chinese. English and Chinese summaries) **94k:20067**

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Amberg, Bernhard (*with* Franciosi, Silvana; de Giovanni, Francesco) ★ Products of groups. **94h:20001**
Asaad, Mohamed (*with* Ramadan, M.) On the intersection of maximal subgroups of a finite group. **94f:20039**
Babai, László (*with* Goodman, Albert J.) Subdirectly reducible groups and edge-minimal graphs with given automorphism group. (English summary) **94d:20031**
Baum, Ulrich *see* **Clausen, Michael, 94b:20011**
Beidleman, James C. (*with* Tomkinson, M. J.) Normal $\mathfrak{S}_1$-Fitting classes. **94a:20056**
— (*with* Smith, Howard) A note on supersoluble maximal subgroups and theta-pairs. (English summary) **94e:20040**
Carocca, Angel (*with* Maier, Rudolf) The p-Huppert-subgroup and the set of p-quasi-superfluous elements in a finite group. (English summary) **94f:20040**
Chen, Zhong Mu Finite groups whose minimal p-subgroups are seminormal. (English summary) **94k:20037**
Clausen, Michael (*with* Baum, Ulrich) Ein kombinatorischer Zugang zur Darstellungstheorie überauflösbarer Gruppen. (German summary) [A combinatorial approach to the representation theory of supersolvable groups] **94b:20011**
Davis, Mark Kelly (*with* Nesin, Ali) On solvable centerless groups of Morley rank 3. **94e:03034**
Detinko, A. S. Maximal solvable subgroups of the special linear group over an arbitrary field. (Russian. Russian summary) **94d:20050**
Endimioni, Gérard Sur la résolubilité des 2-groupes. (English and French summaries) [On the solvability of 2-groups] **94g:20029**
Ezquerro Marín, Luis Miguel A contribution to the theory of finite supersoluble groups. **94e:20024**
Franciosi, Silvana *see* **Amberg, Bernhard; et al., 94h:20001**
de Giovanni, Francesco *see* **Amberg, Bernhard; et al., 94h:20001**
Goodman, Albert J. *see* **Babai, László, 94d:20031**
Grigorchuk, R. I. (*with* Maki, A.) On a group of intermediate growth that acts on a line by homeomorphisms. (Russian) **94c:20008**
Groves, J. R. J. HNN-extensions of finitely presented soluble groups. **94m:20061**
Gupta, Chander Kanta (*with* Shpilrain, Vladimir) The centre of a one-relator solvable group. **94k:20061**
Kharlampovich, O. The word problem for solvable groups and Lie algebras. **94h:20043**
Kropholler, Peter H. Soluble groups of type $(FP)_\infty$ have finite torsion-free rank. **94j:20051a**
— (*with* Wilson, John S.) Torsion in profinite completions. **94f:20057**
— On groups of type $(FP)_\infty$. (English summary) **94j:20051b**
Li, Shi Rong On minimal subgroups of finite groups. (English summary) **94k:20038**
Lichtman, A. I. The soluble subgroups and the Tits alternative in linear groups over rings of fractions of polycylic group rings. I. (English summary) **94d:20056**
Longobardi, Patrizia (*with* Maj, Mercede; Rhemtulla, Akbar H.) Residually solvable PSP-groups. (Italian summary) **94c:20054**
Maier, Rudolf *see* **Carocca, Angel, 94f:20040**
Maj, Mercede *see* **Longobardi, Patrizia; et al., 94c:20054**
Maki, A. *see* **Grigorchuk, R. I., 94c:20008**
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Puglisi, Orazio Homomorphic images of finitary linear groups. **94e:20054**
Ramadan, M. (*with* Rashwan, O. A.) On the supersolvability of finite groups. (English summary) **94m:20049**
— *see also* **Asaad, Mohamed, 94f:20039** *and* **Shaalan, A., 94k:20032**
Rashwan, O. A. *see* **Ramadan, M., 94m:20049**
Rhemtulla, Akbar H. *see* **Longobardi, Patrizia; et al., 94c:20054**
Sauer, Theadore Die Grade der irreduziblen komplexen Darstellungen der Gruppen der Unidreiecksmatrizen $UT(n, R)$, $R = \mathbf{Z}/p^m\mathbf{Z}$. [The degrees of irreducible complex representations of the groups of unitriangular matrices $UT(n, R)$, $R = \mathbf{Z}/p^m\mathbf{Z}$] **94f:20087**
Shaalan, A. (*with* Ramadan, M.) On MNP-groups. **94k:20032**
Shpilrain, Vladimir *see* **Gupta, Chander Kanta, 94k:20061**
Smith, Howard *see* **Beidleman, James C., 94e:20040**
Stöhr, Ralph Homology of free Lie powers and torsion in groups. (English summary) **94m:20104**
Timoshenko, E. I. Algorithmic solvability of the inclusion problem in a basis for a free metabelian group. (Russian) **94a:20043**
Tomkinson, M. J. *see* **Beidleman, James C., 94a:20056**
Wang, Pin Chao A problem on products of two supersolvable subgroups of a finite group. (Chinese. English summary) **94e:20028**
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Wilson, John S. *see* **Kropholler, Peter H., 94f:20057**

20F17 Formations of groups, Fitting classes [see also 20D10]

Beidleman, James C. (*with* Tomkinson, M. J.) Normal $\mathfrak{S}_1$-Fitting classes. **94a:20056**
Kamornikov, S. F. On some properties of the formation of quasinilpotent groups. (Russian) **94f:20069**
McCann, Brendan On minimal Fitting classes of periodic, infinite groups. (English summary) **94c:20062**
Tomkinson, M. J. *see* **Beidleman, James C., 94a:20056**

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Iranzo, M. J. (*with* Martínez Pastor, A.; Pérez Monasor, F.) A ZJ-theorem for p^*,p-injectors in finite groups. **94a:20036**
Martínez Pastor, A. *see* **Iranzo, M. J.; et al., 94a:20036**
Pérez Monasor, F. *see* **Iranzo, M. J.; et al., 94a:20036**
Skiba, A. N. Formations of the form $\mathfrak{F}\mathfrak{h}$. (Russian. English and Russian summaries) **94j:20017**

20F18 Nilpotent groups

Casacuberta, Carles (*with* Hilton, Peter John) On nilpotent groups which are finitely generated at every prime. **94j:20039**
Dekimpe, Karel (*with* Igodt, Paul) Computational aspects of affine representations for torsion free nilpotent groups via the Seifert construction. (English summary) **94e:20049**
Gupta, Narain (*with* Moghaddam, M. R. R.) Higher Schur-multiplicators of nilpotent dihedral groups. (English summary) **94f:20070**
Hilton, Peter John (*with* Militello, Robert) Some remarks on almost finitely generated nilpotent groups. (English summary) **94c:20063**
— On a family of Serre classes of nilpotent groups. (English summary) **94h:20047**
— (*with* Schuck, Ch.) On the structure of nilpotent groups of a certain type. **94i:20061**
— *see also* **Casacuberta, Carles, 94j:20039**
Igodt, Paul *see* **Dekimpe, Karel, 94e:20049**
Khukhro, E. I. ★ Nilpotent groups and their automorphisms. **94g:20046**
Makanin, A. G. On the compressibility of torsion-free finitely generated nilpotent groups. (Russian. Russian summary) **94a:20057**
— Residual finiteness of equations in finitely generated nilpotent groups. (Russian. Russian summary) **94f:20071**
Militello, Robert *see* **Hilton, Peter John, 94c:20063**
Moghaddam, M. R. R. *see* **Gupta, Narain, 94f:20070**
Neumann, B. H. A large nilpotent group without large abelian subgroups. (English summary) **94m:20078**
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Items with secondary classifications in 20F18

Campana, Frédéric Remarques sur les groupes de Kähler nilpotents. (English and French summaries) [Remarks on nilpotent Kähler groups] **94k:32048**
Cenkl, B. (*with* Porter, Richard D.) Algorithm for the computation of the cohomology of $\mathcal{J}$-groups. **94a:20085**
Cherlin, Gregory L. (*with* Saracino, Dan; Wood, Carol) On homogeneous nilpotent groups and rings. **94a:03059**
Khukhro, E. I. On groups with a splitting automorphism of prime order. (Russian. English and Russian summaries) **94f:20072**
Lévy-Bruhl, Pierre (*with* Nourrigat, J.) "Wave packets" sur les groupes nilpotents. [Wave packets on nilpotent groups] **94i:22028**
Nourrigat, J. *see* **Lévy-Bruhl, Pierre, 94i:22028**
Porter, Richard D. *see* **Cenkl, B., 94a:20085**
Rinaldi, Franca On the normal subgroup lattice of a hypercentral p-group. (English summary) **94k:20050**
Saracino, Dan *see* **Cherlin, Gregory L.; et al., 94a:03059**
Semple, James F. (*with* Shalev, Aner) Combinatorial conditions in residually finite groups. I. **94g:20033**
Shalev, Aner *see* **Semple, James F., 94g:20033**
Shchuchkin, N. A. Solvable and nilpotent n-groups. (Russian) **94e:20048**
Sheu, Tsung Luen Nilpotent injectors in general linear groups. (English summary) **94m:20042**
Vaughan-Lee, Michael (*with* Zel'manov, E. I.) Upper bounds in the restricted Burnside problem. **94j:20019**
Wehrfritz, B. A. F. Algebras generated by locally nilpotent finitary skew linear groups. **94h:16047**
Wisliceny, Jürgen Nilpotente Liealgebren und endliche Pro-p-Gruppen. [Nilpotent Lie algebras and finite pro-p-groups] **94f:17010**
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20F19 Generalizations of solvable and nilpotent groups

Berrick, A. J. (*with* Robinson, Derek J. S.) Imperfect groups. (English summary) **94g:20047**
Chen, Zhong Mu On almost solvable groups. (Chinese. English and Chinese summaries) **94j:20040**
Meierfrankenfeld, Ulrich (*with* Phillips, Richard E.; Puglisi, Orazio) Locally solvable finitary linear groups. **94c:20064**
Onishchuk, V. A. Locally nilpotent groups with a centralizer of finite rank. (Russian. Russian and Ukrainian summaries) **94a:20058**
Phillips, Richard E. *see* **Meierfrankenfeld, Ulrich; et al., 94c:20064**
Puglisi, Orazio *see* **Meierfrankenfeld, Ulrich; et al., 94c:20064**
Robinson, Derek J. S. *see* **Berrick, A. J., 94g:20047**
Shumyatskii, P. V. On locally soluble periodic groups with Chernikov centralizer of a four-subgroup. (English summary) **94m:20079**
Wehrfritz, B. A. F. Nilpotence in finitary skew linear groups. (English summary) **94a:20059**
— Locally soluble finitary skew linear groups. **94m:20080**

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Amberg, Bernhard (*with* Franciosi, Silvana; de Giovanni, Francesco) ★ Products of groups. **94h:20001**
Duan, Ze Yong Extensions of abelian by hyper-(cyclic or finite) groups. II. (English summary) **94d:20026**
Franciosi, Silvana (*with* de Giovanni, Francesco) Groups with many supersoluble subgroups. (English summary) **94a:20055**
— *see also* **Amberg, Bernhard; et al., 94h:20001**
de Giovanni, Francesco *see* **Franciosi, Silvana, 94a:20055** *and* **Amberg, Bernhard; et al., 94h:20001**
Hanaki, Akihide A characterization of M_p-groups. (English summary) **94h:20014**
Johnson, Peter Malcolm A property of factorizable groups. **94d:20043**
Kropholler, Peter H. Amenability and right orderable groups. **94j:20044**
Longobardi, Patrizia (*with* Maj, Mercede; Rhemtulla, Akbar H.) Covering a group with isolators of finitely many subgroups. **94e:20057**
Maj, Mercede *see* **Longobardi, Patrizia; et al., 94e:20057**
Puglisi, Orazio (*with* Spiezia, Lucia Serena) A combinatorial property of certain infinite groups. **94k:20074**
Rhemtulla, Akbar H. *see* **Longobardi, Patrizia; et al., 94e:20057**
Shalev, Aner Combinatorial conditions in residually finite groups. II. **94g:20034**
Spiezia, Lucia Serena *see* **Puglisi, Orazio, 94k:20074**
Tomkinson, M. J. Major subgroups of nilpotent-by-finite groups. (English and Ukrainian summaries) **94a:20045**

20F22 Other classes of groups defined by subgroup chains

Items with secondary classifications in 20F22

Chen, Zhong Mu On almost solvable groups. (Chinese. English and Chinese summaries) **94j:20040**
Duan, Ze Yong Extensions of abelian by hyper-(cyclic or finite) groups. II. (English summary) **94d:20026**
Senashov, V. I. (*with* Sozutov, A. I.) On the theory of groups with the minimality condition. (Russian. Russian summary) **94f:20056**
Sozutov, A. I. *see* **Senashov, V. I., 94f:20056**

20F24 FC-groups and their generalizations

Brendle, Jörg Set-theoretic aspects of nonabelian groups. (English summary) **94i:20062**
Haug, Frieder Existentially closed locally FC-groups. **94i:20063**
Maznichenko, V. A. (*with* Sysak, Ya. P.) On abelian-by-hyperfinite groups. (Russian summary) **94d:20035**
Sysak, Ya. P. *see* **Maznichenko, V. A., 94d:20035**
Tomkinson, M. J. FC-nilpotent groups and a Frattini-like subgroup. **94c:20065**

Items with secondary classifications in 20F24

Belyaev, V. V. Inert subgroups in infinite simple groups. (Russian. English and Russian summaries) **94m:20067**
Chillag, David (*with* Herzog, Marcel; Mann, Avinoam) On the diameter of a graph related to conjugacy classes of groups. (English summary) **94a:20038**
Herzog, Marcel *see* **Chillag, David; et al., 94a:20038**
Mann, Avinoam *see* **Chillag, David; et al., 94a:20038**

20F28 Automorphism groups of groups [see also 20E36]

Cutolo, Giovanni Quasi-power automorphisms of infinite groups. **94a:20060**
Khramtsov, D. G. Completeness of groups of outer automorphisms of free groups. (Russian) **94c:20066**
Khukhro, E. I. On groups with a splitting automorphism of prime order. (Russian. English and Russian summaries) **94f:20072**
Krstić, Sava (*with* Vogtmann, Karen) Equivariant outer space and automorphisms of free-by-finite groups. **94c:20067**
Lennox, John C. (*with* Wiegold, James) On a question of Deaconescu about automorphisms. **94f:20073**
Makarenko, N. Yu. Almost regular automorphisms of prime order. (Russian. Russian summary) **94a:20061**
Moriah, Yoav (*with* Shpilrain, Vladimir) Nontame automorphisms of extensions of periodic groups. (English summary) **94k:20068**
Pettet, Martin R. Free-by-finite cyclic automorphism groups. (English summary) **94c:20068**
Roman'kov, V. A. Infinite generation of groups of automorphisms of free pro-p-groups. (Russian. English and Russian summaries) **94j:20041**
Shpilrain, Vladimir *see* **Moriah, Yoav, 94k:20068**
Shumyatskii, P. V. A four-group of automorphisms with a small number of fixed points. (Russian. Russian summary) **94i:20064**
Vogtmann, Karen *see* **Krstić, Sava, 94c:20067**
Wicks, M. J. Automorphisms of the free group of rank two. **94b:20040**
Wiegold, James *see* **Lennox, John C., 94f:20073**

Items with secondary classifications in 20F28

Abe, Eiichi Automorphisms of Chevalley groups over commutative rings. (Russian) **94e:20062**
Brady, Thomas The integral cohomology of $\mathrm{Out}_+(F_3)$. (English summary) **94d:20057**
Bryant, Roger M. (*with* Gupta, Chander Kanta) Automorphisms of free nilpotent-by-abelian groups. **94f:20052**
David, C. T_3-systems of finite simple groups. **94h:20024**
Dicks, Warren (*with* Ventura, Enric) Irreducible automorphisms of growth rate one. **94i:20047**
Dress, Andreas W. M. (*with* Ryshkov, S. S.) Some systems of generators of the group $\mathrm{GL}(n, \mathbf{Z})$ for $n \leq 5$. (Russian. Russian summary) **94a:20084**
Dugas, Manfred (*with* Göbel, Rüdiger) On locally finite p-groups and a problem of Philip Hall's. **94g:20054**
Gersten, Steve M. The automorphism group of a free group is not a CAT(0) group. (English summary) **94j:20043**
Göbel, Rüdiger *see* **Dugas, Manfred, 94g:20054**
Gupta, Chander Kanta *see* **Bryant, Roger M., 94f:20052**
Hansen, Vagn Lundsgaard Jakob Nielsen (1890–1959). **94j:57002**
Hoare, A. H. M. (*with* Lai, M. K. F.) On automorphisms of free products. **94f:20050**
Huang, Ping An Finite groups with automorphism groups of order p^2q. (Chinese. English and Chinese summaries) **94g:20026**
Khukhro, E. I. ★ Nilpotent groups and their automorphisms. **94g:20046**
Kramer, Peter Free groups, their automorphism groups, applications. (English summary) **94k:20044**
Lai, M. K. F. *see* **Hoare, A. H. M., 94f:20050**
Menegazzo, Federico Automorphisms of p-groups with cyclic commutator subgroup. (English summary) **94j:20018**
Moorhouse, G. Eric Ovoids from the E_8 root lattice. (English summary) **94d:51011**
(Nielsen, Jakob) *see* **Hansen, Vagn Lundsgaard, 94j:57002**
Papistas, Athanassios I. Nontame automorphisms of free nilpotent groups of rank 2. **94b:20037**
Peterson, Gary Lee Endomorphism near-rings of p-groups generated by the automorphism and inner automorphism groups. **94a:16079**
Roman'kov, V. A. Generating elements of groups of automorphisms of free metabelian pro-p-groups. (Russian. Russian summary) **94a:22010**
Ryshkov, S. S. *see* **Dress, Andreas W. M., 94a:20084**
Schneps, Leila Groupe de Grothendieck-Teichmüller et automorphismes de groupes de tresses. (English and French summaries) [The Grothendieck-Teichmüller group and automorphisms of braid groups] **94k:20072**
(Vavilov, N. A.) *see* **Abe, Eiichi, 94e:20062**
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20F29 Representations of groups as automorphism groups of algebraic systems

Cacciari, Leo On the automorphism group of a toroidal hypermap. (English and French summaries) **94e:20050**
Maginnis, J. S. Outer automorphisms of upper triangular matrices. (English summary) **94j:20042**
Phạm Hữu Tiệp Automorphism groups of some Mordell-Weil lattices. (Russian. Russian summary) **94a:20062**
— A reduction theorem for invariant integral lattices of type A_n. **94e:20051**

Items with secondary classifications in 20F29

Benson, David John ★ Polynomial invariants of finite groups. (English summary) **94j:13003**
Coelho, Sônia P. Automorphism groups of certain algebras of triangular matrices. **94e:15036**
González-Acuña, F. (*with* Montesinos, José María) On the character variety of group representations in $\mathrm{SL}(2, \mathbf{C})$ and $\mathrm{PSL}(2, \mathbf{C})$. **94k:57022**
Montesinos, José María *see* **González-Acuña, F., 94k:57022**
Strambach, Karl Multiplications with a prescribed group of automorphisms. **94c:51004**

20F32 Geometric group theory [see also 05C25, 20Exx, 20Gxx]

Alonso, Juan M. Combings of groups. (English summary) **94g:20048**
Brick, Stephen G. Quasi-isometries and ends of groups. (English summary) **94b:20043**
Bridson, Martin R. Combings of semidirect products and 3-manifold groups. (English summary) **94i:20065**
— Regular combings, nonpositive curvature and the quasiconvexity of abelian subgroups. (English summary) **94f:20074**
Cuypers, Hans (*with* Hall, Jonathan I.) 3-transposition groups of orthogonal type. **94b:20041**
Duncan, Andrew J. (*with* Howie, James) One relator products with high-powered relators. (English summary) **94i:20066**
Dunwoody, Martin J. An inaccessible group. **94i:20067**
Gersten, Steve M. Dehn functions and l_1-norms of finite presentations. (English summary) **94g:20049**
— Quasi-isometry invariance of cohomological dimension. (English and French summaries) **94b:20042**
— The automorphism group of a free group is not a CAT(0) group. (English summary) **94j:20043**
Hall, Jonathan I. *see* **Cuypers, Hans, 94b:20041**
Howie, James *see* **Duncan, Andrew J., 94i:20066**

Huck, Günther (*with* Rosebrock, Stephan) A bicombing that implies a sub-exponential isoperimetric inequality. (English summary) **94k:20069**
Johnson, F. E. A. Surface fibrations and automorphisms of nonabelian extensions. **94d:20036**
Kaufmann, Ralf (*with* Zieschang, Heiner) On the rank of NEC groups. (English summary) **94c:20069**
Klyachko, Anton A. A funny property of sphere and equations over groups. (English summary) **94c:20070**
Meier, John Automorphisms of negatively curved polygonal amalgams. **94m:20081**
Meinert, Holger The geometric invariants of direct products of virtually free groups. **94m:20082**
Mushtaq, Qaiser (*with* Shaheen, F.) On graphs for certain polyhedral groups. **94i:20068**
(Niblo, Graham A.) *see* **Problems: Geometric group theory, (94c:20002)**
Ol'shanskiĭ, A. Yu. On residualing homomorphisms and G-subgroups of hyperbolic groups. **94i:20069**
Parker, Christopher On the nonexistence of a class of rank 3 amalgams. **94m:20083**
Pittet, Christophe Surface groups and quasi-convexity. **94g:20050**
Rosebrock, Stephan *see* **Huck, Günther, 94k:20069**
Shaheen, F. *see* **Mushtaq, Qaiser, 94i:20068**
Swarup, Gadde A. On the ends of pairs of groups. (English summary) **94d:20037**
Zieschang, Heiner *see* **Kaufmann, Ralf, 94c:20069**

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A'Campo, N. (*with* Kotschick, D.) Contact structures, foliations, and the fundamental group. **94j:57027**
Baik, Young-Gheel (*with* Howie, James; Pride, Stephen J.) The identity problem for graph products of groups. **94i:20049**
Baumslag, Gilbert (*with* Gersten, Steve M.; Shapiro, Michael David; Short, H.) Automatic groups and amalgams—a survey. **94g:20040**
Bridson, Martin R. Geodesics and curvature in metric simplicial complexes. **94c:57040**
— (*with* Gilman, Robert H.) A remark about combings of groups. (English summary) **94j:20036**
— On the geometry of normal forms in discrete groups. (English summary) **94g:20036**
Brown, Kenneth S. The geometry of rewriting systems: a proof of the Anick-Groves-Squier theorem. (English summary) **94g:20041**
Cai, Hui Jing *see* **Wang, Jian, 94a:11056**
Casacuberta, Carles (*with* Dicks, Warren) On finite groups acting on acyclic complexes of dimension two. (English summary) **94c:55006**
Conder, Marston D. E. (*with* Wilson, Robert A.; Woldar, Andrew J.) The symmetric genus of sporadic groups: announced results. (English summary) **94f:20033**
Conway, J. H. The orbifold notation for surface groups. **94a:57025**
Coornaert, Michel (*with* Papadopoulos, Athanase) ★ Symbolic dynamics and hyperbolic groups. **94d:58054**
— Mesures de Patterson-Sullivan sur le bord d'un espace hyperbolique au sens de Gromov. (French summary) [Patterson-Sullivan measures on the boundary of a hyperbolic space in the sense of Gromov] **94m:57075**
Dicks, Warren *see* **Casacuberta, Carles, 94c:55006**
Farb, Benson The extrinsic geometry of subgroups and the generalized word problem. **94m:20073**
Floyd, William J. Symmetries of planar growth functions. II. **94k:20060**
Gersten, Steve M. Problems on automatic groups. **94g:20042**
— *see also* **Baumslag, Gilbert; et al., 94g:20040**
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20F34 Fundamental groups and their automorphisms [see also 57M05, 57Sxx, 22E40]

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20F55 Coxeter groups [see also 22E40]

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20F60 Ordered groups [See mainly 06F15]

Gurchenkov, S. A. About varieties of weakly abelian l-groups. (English summary) **94a:20067**
Kropholler, Peter H. Amenability and right orderable groups. **94j:20044**
Xiao, Wen Jun A generalization of quasinilpotent groups and Fitting subgroups. (Chinese. English and Chinese summaries) **94f:20080**
Zheng, Xi Qiang Construction of above and below subgroups and saturated subgroups of lattice-ordered groups. (Chinese. English and Chinese summaries) **94a:20068**

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Ball, Richard N. (*with* Hager, Anthony W.) Algebraic extensions of an Archimedean lattice-ordered group. I. (English summary) **94a:06032**
Carrà Ferro, Giuseppa (*with* Sit, William Y.) On term-orderings and rankings. (English summary) **94m:06016**
Darnel, Michael R. Cyclic extensions of the Medvedev ordered groups. **94c:06021**
Dubrovin, N. I. Rational closures of group rings of left-ordered groups. (Russian. Russian summary) **94g:16035**
Elliott, George A. (*with* Mundici, Daniele) A characterisation of lattice-ordered abelian groups. **94e:06010**
Gardner, B. J. Free commutative semifields. (English summary) **94e:12006**
Hager, Anthony W. *see* **Ball, Richard N., 94a:06032**
Jasem, Milan On isometries in partially ordered groups. (English summary) **94c:06022**
Loveys, James (*with* Peterzil, Ya'acov) Linear o-minimal structures. (English summary) **94i:03075**
Mundici, Daniele *see* **Elliott, George A., 94e:06010**
Murphy, Gerard J. Partially ordered groups. **94f:06016**
Pavone, Marco Partially ordered groups, almost invariant sets, and Toeplitz operators. (English summary) **94g:47037**
Peterzil, Ya'acov *see* **Loveys, James, 94i:03075**
Sit, William Y. *see* **Carrà Ferro, Giuseppa, 94m:06016**
Snodgrass, J. T. (*with* Tsinakis, Constantine) Finite-valued algebraic lattices. **94f:06012**
Tararin, V. M. On the theory of right-ordered groups. (Russian. Russian summary) **94h:06018**
Tsinakis, Constantine *see* **Snodgrass, J. T., 94f:06012**
Varaksin, S. V. A continuum of minimal quasivarieties of l-groups. (Russian. English and Russian summaries) **94m:20064**
Zafrullah, Muhammad On Riesz groups. **94i:06019**
Zhou, Wei The relation between free functors and O-tensor product functors. (Chinese. English and Chinese summaries) **94f:06017**

20F99 None of the above, but in this section

Borevich, Z. I. Polynormal subgroups. **94c:20076**
Carlip, Walter A Hall-Higman type theorem for cyclic groups. **94d:20046**
Longobardi, Patrizia (*with* Maj, Mercede; Rhemtulla, Akbar H.) Covering a group with isolators of finitely many subgroups. **94e:20057**
Maj, Mercede *see* **Longobardi, Patrizia; et al., 94e:20057**
Mann, Avinoam Some properties of polynomial subgroup growth groups. (English summary) **94m:20088**
Rhemtulla, Akbar H. *see* **Longobardi, Patrizia; et al., 94e:20057**
Sabinin, L. V. On the theory of φ-spaces. (Russian)
Shunkov, V. P. ★ О вложении примарных элементов в группе. (Russian. Russian summary) [Embedding primary elements in a group] **94e:20058**
Van'kov, B. P. On the centralizer of elements in $T/4$ groups. (Russian) (*see* **94d:20001**)

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Bedford, David A partial solution to a question raised by R. L. Graham. (English summary) **94k:20040**
Brick, Stephen G. A note on coverings and Kervaire complexes. **94a:57009**
Deck, Karin M. Some properties of the automorphism group of a transcendental field extension. **94b:12002**
Herzog, Marcel (*with* Longobardi, Patrizia; Maj, Mercede) On a combinatorial problem in group theory. (English summary) **94h:20032**
Longobardi, Patrizia *see* **Herzog, Marcel; et al., 94h:20032**
Maj, Mercede *see* **Herzog, Marcel; et al., 94h:20032**
Onishchuk, V. A. Locally nilpotent groups with a centralizer of finite rank. (Russian. Russian and Ukrainian summaries) **94a:20058**
Roitman, Judith Uncountable autohomeomorphism groups of thin-tall locally compact scattered spaces. **94b:54105**
Stillwell, John ★ Classical topology and combinatorial group theory. **94a:57001**

20Gxx Linear algebraic groups (classical groups) {For arithmetic theory, see 11E57, 11H06; for geometric theory, see 14Lxx, 22Exx; for other methods in representation theory, see 15A30, 22E45, 22E46, 22E47, 22E50, 22E55.}

(Elman, Richard S.) *see* **Linear algebraic groups and their representations, 94f:20081**
(Schacher, Murray M.) *see* **Linear algebraic groups and their representations, 94f:20081**
(Varadarajan, V. S.) *see* **Linear algebraic groups and their representations, 94f:20081**

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Linear Algebraic Groups and their Representations ★ Linear algebraic groups and their representations. **94f:20081**
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20G05 Representation theory

Adams, Jeffrey (*with* Moy, Allen) Unipotent representations and reductive dual pairs over finite fields. **94d:20047**
Akin, Kaan On complexes relating the Jacobi-Trudi identity with the Bernstein-Gel'fand-Gel'fand resolution. II. **94e:20059**
Barnabei, Marilena (*with* Frontini, V.; Sgallari, F.) An algorithm for Weyl module irreducibility. (English summary) **94g:20058**
Brion, Michel On the representation theory of SL(2). **94m:20089**
Cabanes, Marc (*with* Enguehard, Michel) Unipotent blocks of finite reductive groups of a given type. **94h:20048**
Cline, Edward (*with* Parshall, Brian; Scott, Leonard L.) Abstract Kazhdan-Lusztig theories. (English summary) **94k:20079**
Curtis, Charles W. On the Gel'fand-Graev representations of a reductive group over a finite field. **94i:20075**
Donkin, Stephen On tilting modules for algebraic groups. **94b:20045**
Enguehard, Michel *see* **Cabanes, Marc, 94h:20048**
Faiziev, V. A. Pseudocharacters of the group SL(2, Z). (Russian) **94a:20069**
Fitzgerald, John Uniserial modules for B_2. **94d:20048**
Frontini, V. *see* **Barnabei, Marilena; et al., 94g:20058**
Grojnowski, I. (*with* Lusztig, George) On bases of irreducible representations of quantum GL_n. (English summary) **94a:20070**
Gross, David L. Higher nullcones and commuting varieties. **94g:20059**
Hill, Gregory A Jordan decomposition of representations for $GL_n(\mathscr{O})$. **94i:20076**
Hu, Shou Jen Fixed fields of some unipotent groups. (English summary) **94f:20082**
Huneke, Craig L. (*with* Lakshmibai, V.) Degeneracy of Schubert varieties. (English summary) **94f:20083**
Iliev, Valentin Vankov A note on the polynomial functors corresponding to the monomial representations of the symmetric group. (English summary) **94f:20084**
Jones, Gareth A. Exceptional representations of $PSL_2(q)$ of monodromy genus zero. (English summary) **94f:20085**
van der Kallen, Wilberd Infinitesimal fixed points in modules with good filtration. **94a:20071**
Kato, Shin-ichi Duality for representations of a Hecke algebra. (English summary) **94g:20060**
Kleshchev, A. S. ★ On restrictions of irreducible modular representations of semisimple algebraic groups and symmetric groups to some natural subgroups. (Russian summary) **94g:20061**
— On restrictions of irreducible modular representations of semisimple algebraic groups and symmetric groups to some natural subgroups. (Russian)
Kouwenhoven, Frank M. Indecomposable representations of $M(2, \mathbf{F}_q)$ over $\mathbf{F}_q$. **94k:20080**
Lakshmibai, V. *see* **Huneke, Craig L., 94f:20083**
Lawther, Ross Ian Some (almost) multiplicity-free coset actions. **94f:20086**
Littelmann, Peter Good filtrations and decomposition rules for representations with standard monomial theory. **94a:20072**
Lusztig, George A unipotent support for irreducible representations. **94a:20073**
— Appendix: Coxeter groups and unipotent representations. **94i:20077**
— Vanishing properties of cuspidal local systems. (English summary) **94m:20090**
— *see also* **Grojnowski, I., 94a:20070**
Malle, Gunter Green functions for groups of types E_6 and F_4 in characteristic 2. **94c:20077**
Moy, Allen *see* **Adams, Jeffrey, 94d:20047**
Ochiai, Hiroyuki Characters and character cycles. **94i:20078**
Ohmori, Zyozyu On the existence of characters of the Schur index 2 of the simple finite Steinberg groups of type ${}^2E_6$). **94i:20079**
Parshall, Brian *see* **Cline, Edward; et al., 94k:20079**
Pillen, Cornelius Tensor products of modules with restricted highest weight. (English summary) **94e:20060**
Satō, Fumihiro On the stability of branching coefficients of rational representations of reductive groups. **94h:20049**
Sauer, Theadore Die Grade der irreduziblen komplexen Darstellungen der Gruppen der Unidreiecksmatrizen $UT(n, R)$, $R = \mathbf{Z}/p^m\mathbf{Z}$. [The degrees of irreducible complex representations of the groups of unitriangular matrices $UT(n, R)$, $R = \mathbf{Z}/p^m\mathbf{Z}$] **94f:20087**
Scott, Leonard L. *see* **Cline, Edward; et al., 94k:20079**
Serre, Jean-Pierre Sur la semi-simplicité des produits tensoriels de représentations de groupes. [On the semisimplicity of the tensor products of group representations] **94m:20091**
Sgallari, F. *see* **Barnabei, Marilena; et al., 94g:20058**
Shalev, Aner On the fixity of linear groups. (English summary) **94m:20092**
Suprunenko, I. D. Representations of algebraic groups containing matrices with large Jordan blocks. (English summary) **94j:20045**
Van den Bergh, Michel A converse to Stanley's conjecture for Sl_2. (English summary) **94g:20062**
Varagnolo, Michela Harmonic polynomials and Springer's representation for $SL(n, \mathbf{C})$. **94h:20050**
Wang, Yang Xian (*with* Wei, Hong Zeng) Suborbits of the finite unitary group $U_n(\mathbf{F}_{q^2})$ on the transitive set of subspaces of type $(s + 1, 1)$. (Chinese. Chinese summary) **94g:20063**
Wei, Hong Zeng *see* **Wang, Yang Xian, 94g:20063**
Zhuravlev, V. M. Multiplicity of irreducible components of a free Lie algebra as a module of the general linear group. (Russian. Russian summary) **94d:20049**

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Représentations unipotentes génériques et blocs des groupes réductifs finis ★ Représentations unipotentes génériques et blocs des groupes réductifs finis. (French) [Generic unipotent representations and blocks of finite reductive groups] **94c:20078**

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Ališauskas, Sigitas Explicit orthogonalization of some biorthogonal bases for $SU(n) \supset SO(n)$ and $Sp(4) \supset U(2)$. (English summary) **94a:22042**
Alperin, J. L. (*with* Mason, Geoffrey) Partial Steinberg modules for finite groups of Lie type. **94i:20024**
An, Jian Bei Weights for classical groups. **94e:20015**
Aslaksen, Helmer (*with* Tan, Eng-Chye; Zhu, Chen-bo) Quivers and the invariant theory of Levi subgroups. (English summary) **94k:16023**
Barkovich, O. A. *see* **Rapinchuk, A. S., 94f:20016**
Becker, Andreas (*with* Krämer, Manfred) Fixraumdimensionen von Untergruppen bei Darstellungen der SO(4). [Fixed space dimensions of subgroups in representations of SO(4)] **94g:22030**
Benyash-Krivets, V. V. *see* **Rapinchuk, A. S., 94i:20070**
Brini, Andrea (*with* Huang, Rosa Q.; Teolis, Antonio G. B.) The umbral symbolic method for supersymmetric tensors. **94a:05015**
Brylinski, Ranee Kathryn Matrix concomitants with the mixed tensor model. **94h:14048**
Buchsbaum, David A. Some remarks on determinantal ideals and representation theory. (English summary) **94c:13010**
Chang, Jen-Tseh Asymptotics and characteristic cycles for representations of complex groups. **94i:22031**
Cuypers, Hans A characterization of $SL_2(k)$ by its quadratic action on the natural module. **94g:20069**
Dixmier, Jacques Transvectants des formes binaires et représentations des groupes binaires polyhédraux. (English summary) [Transvectants of binary forms and representations of polyhedral binary groups] **94a:11053**
Doković, Dragomir Ž. (*with* Platonov, V. P.) Algebraic groups and linear preserver problems. (English and French summaries) **94i:20080**
Erdmann, Karin On 2-modular representations of $GU_2(q)$, $q \equiv 3 \bmod 4$. **94f:20029**
Geck, Meinolf A note on Harish-Chandra induction. (English summary) **94m:20037**
Gluck, David Character value estimates for nonsemisimple elements. **94b:20023**
Greene, John Hypergeometric functions over finite fields and representations of $SL(2, q)$. (English summary) **94g:33012**
Grosshans, Frank D. The symbolic method and representation theory. **94d:13009**
Huang, Rosa Q. *see* **Brini, Andrea; et al., 94a:05015**
Joyal, André (*with* Street, Ross) Braided tensor categories. **94m:18008**
Kerov, S. V. (*with* Kirillov, A. N.) Combinatorics of rational representations of the group $GL(n, \mathbf{C})$. (Russian. English and Russian summaries) **94a:05214**
Kirillov, A. A., Jr. The orbit method. I. Geometric quantization. **94i:22041**
Kirillov, A. N. *see* **Kerov, S. V., 94a:05214**
Krämer, Manfred *see* **Becker, Andreas, 94g:22030**
Kumar, Shrawan Proof of Wahl's conjecture on surjectivity of the Gaussian map for flag varieties. **94b:14049**
Levstein, Fernando Invariant polynomials for a maximal unipotent subgroup of $SL(n, \mathbf{C})$. (English summary) **94m:13003**
Malle, Gunter Generalized Deligne-Lusztig characters. **94i:20025**
Mason, Geoffrey *see* **Alperin, J. L., 94i:20024**
Matumoto, Hisayosi On the existence of homomorphisms between scalar generalized Verma modules. **94g:17011**
Nambooripad, K. S. S. Group-lattices and semigroups. **94f:20130**
Phạm Hữu Tiệp Automorphism groups of some Mordell-Weil lattices. (Russian. Russian summary) **94a:20062**
Pillen, Cornelius Reduction modulo p of some Deligne-Lusztig characters. **94i:20026**
Platonov, V. P. *see* **Doković, Dragomir Ž., 94i:20080**
Proctor, Robert A. Reflection and algorithm proofs of some more Lie group dual pair identities. (English summary) **94f:05147**
— A bideterminant proof of a product identity for plane partitions with symmetries. (English summary) **94g:05103**
Putcha, Mohan S. Sandwich matrices, Solomon algebras, and Kazhdan-Lusztig polynomials. **94a:20112**
Rapinchuk, A. S. (*with* Barkovich, O. A.) Rings of characters of representations of finitely generated groups into arbitrary algebraic groups. (Russian. English and Russian summaries) **94f:20016**
— (*with* Benyash-Krivets, V. V.) Geometric theory of representations for fundamental groups of compact oriented surfaces. (Russian) **94i:20070**
Röhrle, Gerhard E. On the structure of parabolic subgroups in algebraic groups. **94d:20053**
Seelinger, George F. The étale local structure of orthogonal and symplectic matrix invariants. **94j:14046**
Seshadri, C. S. Invariant theory **94c:14042**
Sin, Peter Extensions of simple modules for $G_2(3^n)$ and ${}^2G_2(3^m)$. (English summary) **94a:20020**
Srinivasan, Bhama On Macdonald's symmetric functions. **94e:05264**
Street, Ross *see* **Joyal, André, 94m:18008**
Sturmfels, Bernd ★ Algorithms in invariant theory. **94m:13004**
Takeuchi, Mitsuhiro Representation theory of q-Schur algebras and Hecke algebras. **94b:20025**
Tan, Eng-Chye *see* **Aslaksen, Helmer; et al., 94k:16023**
Tan, Lin Some determinantal identities and the big cells. **94g:05104**
Teolis, Antonio G. B. *see* **Brini, Andrea; et al., 94a:05015**
Thams, Lars Two classical results in the quantum mixed case. **94h:17007**
Wall, G. E. A note on multiplicity-free tensor representations. (English summary) **94g:20020**
Wehlau, David L. Equidimensional varieties and associated cones. **94f:14046**
Wehrfritz, B. A. F. Nilpotence in finitary skew linear groups. (English summary) **94a:20059**
Weyman, Jerzy On the Hilbert functions of multiplicity ideals. **94i:13003a**
— Gordan ideals in the theory of binary forms. **94i:13003b**
Yáñez, M. Francisca A weakly geometrical Gel'fand model for $GL(n, q)$ and a realization of the Gel'fand character of a finite group. (English and French summaries) **94i:20018**
Zhu, Chen-bo *see* **Aslaksen, Helmer; et al., 94k:16023**

20G10 Cohomology theory

Sin, Peter On the 1-cohomology of the groups $G_2(2^n)$. (English summary) **94c:20079**

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Cline, Edward (*with* Parshall, Brian; Scott, Leonard L.) Abstract Kazhdan-Lusztig theories. (English summary) **94k:20079**
— (*with* Parshall, Brian; Scott, Leonard L.) The homological dual of a highest weight category. **94m:20093**
Huneke, Craig L. (*with* Lakshmibai, V.) Degeneracy of Schubert varieties. (English summary) **94f:20083**
Lakshmibai, V. *see* **Huneke, Craig L., 94f:20083**
Parshall, Brian *see* **Cline, Edward; et al., 94k:20079** *and* **94m:20093**
Scott, Leonard L. *see* **Cline, Edward; et al., 94k:20079** *and* **94m:20093**

20G15 Linear algebraic groups over arbitrary fields

Ambrosiewicz, Jan On conjugacy classes in linear groups. **94j:20046**
Bashkirov, E. L. Linear groups that contain the commutant of an orthogonal group of index greater than 1. (Russian. Russian summary) **94e:20061**
Buchsbaum, David A. (*with* Rota, Gian-Carlo) Projective resolutions of Weyl modules. (English summary) **94a:20074**
Chen, Zhong Hu An existence theorem for simple algebraic groups over p-adic fields. (Chinese. Chinese summary) **94k:20081**
Cline, Edward (*with* Parshall, Brian; Scott, Leonard L.) The homological dual of a highest weight category. **94m:20093**
Detinko, A. S. Maximal solvable subgroups of the special linear group over an arbitrary field. (Russian. Russian summary) **94d:20050**
Doković, Dragomir Ž. (*with* Platonov, V. P.) Algebraic groups and linear preserver problems. (English and French summaries) **94i:20080**
Helminck, A. G. (*with* Wang, Shu Ping) On rationality properties of involutions of reductive groups. **94d:20051**
Lan, Ji Zu *see* **You, Hong, 94b:20046**
Lehrer, G. I. (*with* Rylands, L. J.) The split building of a reductive group. **94g:20064**
Lev, Arieh Products of cyclic conjugacy classes in the groups PSL(n, F). (English summary) **94f:20088**
Liu, Jia Chun (*with* Ye, Jia Chen) Extensions of simple modules for the algebraic group of type G_2. (English summary) **94h:20051**
Parshall, Brian *see* **Cline, Edward; et al., 94m:20093**
Platonov, V. P. *see* **Doković, Dragomir Ž., 94i:20080**
Röhrle, Gerhard E. On extraspecial parabolic subgroups. **94k:20082**
— On certain stabilizers in algebraic groups. **94d:20052**
— On the structure of parabolic subgroups in algebraic groups. **94d:20053**
Rota, Gian-Carlo *see* **Buchsbaum, David A., 94a:20074**
Rylands, L. J. *see* **Lehrer, G. I., 94g:20064**
Scott, Leonard L. *see* **Cline, Edward; et al., 94m:20093**
Shi, Zhiyong Groups graded by finite root systems. (English summary) **94a:20075**
Vavilov, N. A. Unipotent elements in subgroups of extended Chevalley groups that contain a split maximal torus. (Russian) **94k:20083**
Wang, Shu Ping *see* **Helminck, A. G., 94d:20051**
Ye, Jia Chen *see* **Liu, Jia Chun, 94h:20051**
You, Hong (*with* Lan, Ji Zu) Decomposition of matrices into 2-involutions. (English summary) **94b:20046**

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Barnabei, Marilena (*with* Frontini, V.; Sgallari, F.) An algorithm for Weyl module irreducibility. (English summary) **94g:20058**
Carter, Roger W. (*with* Chen, Y.) Automorphisms of affine Kac-Moody groups and related Chevalley groups over rings. **94e:17032**
Chen, Y. *see* **Carter, Roger W., 94e:17032**
Colliot-Thélène, Jean-Louis (*with* Ojanguren, Manuel) Espaces principaux homogènes localement triviaux. [Locally trivial principal homogeneous spaces] **94a:14049**
Dixon, John D. (*with* Kovács, L. G.) Generating finite nilpotent irreducible linear groups. **94b:20031**
Frontini, V. *see* **Barnabei, Marilena; et al., 94g:20058**
Hartley, Brian (*with* Zalesskiĭ, A. E.) On simple periodic linear groups—dense subgroups, permutation representations, and induced modules. (English summary) **94i:20046**
Kaneda, Masaharu (*with* Shimada, Nobuo; Tezuka, Michishige; Yagita, Nobuaki) Representations of the Steenrod algebra. **94b:55025**
Kim, Dae San (*with* Kim, Myung-Hwan[1]; Kim, Jae Moon) Action on flag varieties: 2-dimensional case. (English summary) **94b:14048**
Kim, Jae Moon *see* **Kim, Dae San; et al., 94b:14048**
Kim, Myung-Hwan[1] *see* **Kim, Dae San; et al., 94b:14048**
Kovács, L. G. *see* **Dixon, John D., 94b:20031**
Levchuk, V. M. (*with* Martynova, L. A.) Normal structure of unipotent subgroups of Chevalley groups and the ideals of the associated Lie ring. (Russian) **94g:20071**
Lim, Chjan C. Nonsingular sign patterns and the orthogonal group. (English summary) **94c:15036**
Martynova, L. A. *see* **Levchuk, V. M., 94g:20071**
Ojanguren, Manuel *see* **Colliot-Thélène, Jean-Louis, 94a:14049**
Ramis, Jean-Pierre About the solution of some inverse problems in differential Galois theory by Hamburger equations. **94j:12011**
Richardson, R. W. (*with* Springer, T. A.) Combinatorics and geometry of K-orbits on the flag manifold. **94m:14065**
Sgallari, F. *see* **Barnabei, Marilena; et al., 94g:20058**
Shimada, Nobuo *see* **Kaneda, Masaharu; et al., 94b:55025**
Springer, T. A. Geometric structure of conjugacy classes in algebraic groups. (English summary) **94a:20080**
— *see also* **Richardson, R. W., 94m:14065**
Tezuka, Michishige *see* **Kaneda, Masaharu; et al., 94b:55025**
Timmesfeld, F. G. Groups generated by k-root subgroups—a survey. **94f:20060**
Varagnolo, Michela Harmonic polynomials and Springer's representation for SL(n, C). **94h:20050**
Yagita, Nobuaki *see* **Kaneda, Masaharu; et al., 94b:55025**
Zalesskiĭ, A. E. *see* **Hartley, Brian, 94i:20046**

20G20 Linear algebraic groups over the reals, the complexes, the quaternions

Bremigan, Ralph J. Galois cohomology and real algebraic quotients. (English summary) **94h:20052**
Serezhkin, V. N. Free subgroups of linear groups generated by one-dimensional transformations. (Russian. English and Russian summaries) **94i:20081**
Shi, Zhiyong Toroidal groups. **94a:20076**
Tavgen′, O. I. Amalgams of linear groups and the Artin-Rees property. (Russian) **94f:20089**
Tesser, Steven Barry On orbits of the stabilizer of a Schubert variety. (English summary) **94h:20053**

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Becker, Andreas (*with* Krämer, Manfred) Fixraumdimensionen von Untergruppen bei Darstellungen der SO(4). [Fixed space dimensions of subgroups in representations of SO(4)] **94g:22030**
Donkin, Stephen Invariant functions on matrices. **94b:20017**
Helminck, A. G. (*with* Wang, Shu Ping) On rationality properties of involutions of reductive groups. **94d:20051**
Krämer, Manfred *see* **Becker, Andreas, 94g:22030**
Reed, Irving S. Generalized de Moivre's theorem, quaternions, and Lorentz transformations on a Minkowski space. (English summary) **94g:51033**
Robinson, Geoffrey R. Further remarks on linear groups. **94a:20017**
Scognamillo, Renata The canonical combinatorial sheaf associated to an involution of a semisimple adjoint group. Case A_n. **94b:14051**
Wang, Shu Ping *see* **Helminck, A. G., 94d:20051**

20G25 Linear algebraic groups over local fields and their integers

Abels, Herbert Finiteness properties of certain arithmetic groups in the function field case. (English summary) **94a:20077**

Items with secondary classifications in 20G25

Biasco, Laure Paires duales réductives en caractéristique 2. (English and French summaries) [Reductive dual pairs in characteristic 2] **94h:11044**
Caranti, A. Analyticity and growth of pro-p-groups. (English summary) **94c:20051**
Hill, Gregory A Jordan decomposition of representations for $GL_n(\mathcal{O})$. **94i:20076**
Morris, Lawrence Tamely ramified intertwining algebras. **94g:22035**
Pink, Richard Classification of pro-p subgroups of SL_2 over a p-adic ring, where p is an odd prime. **94m:20066**
van der Put, Marius (*with* Voskuil, H.) Symmetric spaces associated to split algebraic groups over a local field. **94h:14022**
Ranga Rao, R. On some explicit formulas in the theory of Weil representation. (English summary) **94a:22037**
Ronan, M. A. (*with* Tits, Jacques) Twin trees. I. **94k:20058**
du Sautoy, Marcus P. F. Finitely generated groups, p-adic analytic groups and Poincaré series. **94j:20029**
Tits, Jacques *see* **Ronan, M. A., 94k:20058**
Voskuil, H. *see* **van der Put, Marius, 94h:14022**

20G30 Linear algebraic groups over global fields and their integers

Rapinchuk, A. S. Congruence subgroup problem for algebraic groups: old and new. (English summary) **94b:20047**

Items with secondary classifications in 20G30

Dixon, John D. (*with* du Sautoy, Marcus P. F.; Mann, Avinoam; Segal, Daniel) ★ Analytic pro-p-groups. **94e:20037**
Mann, Avinoam *see* **Dixon, John D.; et al., 94e:20037**
Mason, A. W. Congruence hulls in SL_n. (English summary) **94i:20085**
du Sautoy, Marcus P. F. *see* **Dixon, John D.; et al., 94e:20037**
Segal, Daniel *see* **Dixon, John D.; et al., 94e:20037**
Stark, C. W. Arithmetic groups of gauge transformations. (English summary) **94h:55029**
Zalesskiĭ, P. A. The structure of the congruence-kernel for SL_2 in the case of a global field of positive characteristic. (Russian. Russian summary) **94g:20066**

20G35 Linear algebraic groups over adèles and other rings and schemes

Abe, Elichi Automorphisms of Chevalley groups over commutative rings. (Russian) **94e:20062**
Costa, Douglas L. (*with* Keller, Gordon E.) Radices in commutative rings. **94k:20084**
Keller, Gordon E. *see* **Costa, Douglas L., 94k:20084**
Petechuk, V. M. Isomorphisms between linear groups over division rings. (English summary) **94m:20094**
(Vavilov, N. A.) *see* **Abe, Elichi, 94e:20062**
You, Hong On subgroups of Chevalley groups which are generated by commutators. (Chinese summary) **94a:20078**

Items with secondary classifications in 20G35

Fournelle, Thomas A. (*with* Sidki, Saïd; Weston, Kenneth W.) On cyclically symmetric presentations for SL_3 and G_2. **94h:20039**
Li, Fu An Isomorphisms of stable Steinberg groups. (English summary) **94k:19001**

Sauer, Theadore Die Grade der irreduziblen komplexen Darstellungen der Gruppen der Unidreiecksmatrizen $UT(n, R)$, $R = \mathbf{Z}/p^m\mathbf{Z}$. [The degrees of irreducible complex representations of the groups of unitriangular matrices $UT(n, R)$, $R = \mathbf{Z}/p^m\mathbf{Z}$] **94f:20087**
Sidki, Saïd *see* **Fournelle, Thomas A.; et al., 94h:20039**
Weston, Kenneth W. *see* **Fournelle, Thomas A.; et al., 94h:20039**

20G40 Linear algebraic groups over finite fields

Ambrosiewicz, Jan Powers of sets of elements of order two in linear groups.
Arregi Lizarraga, Jesús María *see* **Vera López, Antonio, 94b:20048**
Blau, Harvey I. (*with* Zhang, Ji Ping) Linear groups of small degree over fields of finite characteristic. **94i:20082**
Broué, Michel (*with* Malle, Gunter) Zyklotomische Heckealgebren. [Cyclotomic Hecke algebras] **94m:20095**
Burichenko, V. P. Invariant lattices in the Steinberg module, and their isometry groups. (Russian. Russian summary) **94i:20083**
Cazzola, M. (*with* Di Martino, L.) (2, 3)-generation of $PSp(4, q)$, $q = p^n$, $p \neq 2, 3$. (English summary) **94a:20079**
Di Martino, L. *see* **Cazzola, M., 94a:20079**
Fleischmann, Peter (*with* Janiszczak, Ingo) The number of regular semisimple elements for Chevalley groups of classical type. **94f:20090**
Frohardt, Daniel E. (*with* Johnson, Peter Malcolm) Geometric hyperplanes in generalized hexagons of order (2, 2). (English summary) **94m:20096**
Huo, Yuan Ji (*with* Liu, Yingsheng; Wan, Zhe Xian) Lattices generated by transitive sets of subspaces under finite classical groups. III. The orthogonal case of even characteristic. **94f:20091**
— Lattices generated by subspaces of the same dimension and rank in orthogonal geometry over finite fields of odd characteristic. **94i:20084**
Janiszczak, Ingo *see* **Fleischmann, Peter, 94f:20090**
Johnson, Peter Malcolm *see* **Frohardt, Daniel E., 94m:20096**
Kirillov, Anatoli A. Combinatorics of coadjoint orbits. (Russian) **94c:20080**
Lahtonen, Jyrki The reduced polynomial algebra as a module for $SO_{2n}(k)$. **94c:20081**
Liu, Yingsheng *see* **Huo, Yuan Ji; et al., 94f:20091**
Malle, Gunter *see* **Broué, Michel, 94m:20095**
Peikre, L. R. An automorphism of the geometry of the group $B_2(2^n)$ as a polynomial mapping. (Russian. Russian and Ukrainian summaries) **94f:20092**
Praeger, Cheryl E. Computation with matrix groups over finite fields. (English summary) **94h:20054**
Seitz, Gary M. Bounds for dimensions of weight spaces of maximal tori. (English summary) **94m:20097**
Springer, T. A. Geometric structure of conjugacy classes in algebraic groups. (English summary) **94a:20080**
Vera López, Antonio (*with* Arregi Lizarraga, Jesús María) Conjugacy classes in Sylow p-subgroups of $GL(n, q)$. **94b:20048**
Wan, Zhe Xian *see* **Huo, Yuan Ji; et al., 94f:20091**
Zhang, Ji Ping *see* **Blau, Harvey I., 94i:20082**

Items with secondary classifications in 20G40

Adams, Jeffrey (*with* Moy, Allen) Unipotent representations and reductive dual pairs over finite fields. **94d:20047**
Adler, Allan Invariants of $PSL_2(\mathbf{F}_{11})$ acting on $\mathbf{C}^3$. (English summary) **94c:13001**
Al-Ali, M. I. M. M. On irreducible characters of the maximal subgroup p^3: $GL_2(p)/\langle -1\rangle$ of the projective symplectic group $PSp_4(p)$—p-odd prime. **94h:20010**
An, Jian Bei Weights for the simple Ree groups ${}^2G_2(q^2)$. (English summary) **94m:20025**
Arregi Lizarraga, Jesús María *see* **Vera López, Antonio, 94m:20052**
Broué, Michel (*with* Michel, Jean) Blocs à groupes de défaut abéliens des groupes réductifs finis. [Abelian defect group blocks of finite reductive groups] **94j:20007**
Carter, Roger W. ★ Finite groups of Lie type. **94k:20020**
Chiang, Li (*with* Hung, Yu Ch'ing) The invariants of orthogonal group actions. (English summary) **94k:11048**
Curtis, Charles W. On the Gel'fand-Graev representations of a reductive group over a finite field. **94i:20075**
Cuypers, Hans Symplectic geometries, transvection groups, and modules. (English summary) **94m:51003**
Deriziotis, D. I. (*with* Holt, Derek F.) The Möbius function of the lattice of closed subsystems of a root system. **94b:20022**
Dipper, Richard (*with* Fleischmann, Peter) Modular Harish-Chandra theory. I. **94a:20025**
Dyer, M. J. The nil Hecke ring and Deodhar's conjecture on Bruhat intervals. **94c:20073**
Fleischmann, Peter *see* **Dipper, Richard, 94a:20025**
Geck, Meinolf Brauer trees of Hecke algebras. **94a:20019**
Gluck, David Character value estimates for nonsemisimple elements. **94b:20023**
Hildebrand, Martin Generating random elements in $SL_n(\mathbf{F}_q)$ by random transvections. (English summary) **94k:60104**
Hill, Gregory A Jordan decomposition of representations for $GL_n(\mathscr{O})$. **94i:20076**
Holt, Derek F. *see* **Deriziotis, D. I., 94b:20022**
Hu, Yu Wang (*with* Ye, Jia Chen) On the first Cartan invariant for finite groups of Lie type. **94a:20026**
Hung, Yu Ch'ing *see* **Chiang, Li, 94k:11048**
Jones, Gareth A. Exceptional representations of $PSL_2(q)$ of monodromy genus zero. (English summary) **94f:20085**
Kleidman, Peter B. (*with* Wilson, Robert A.) Sporadic simple subgroups of finite exceptional groups of Lie type. **94e:20020**
Lawther, Ross Ian Some (almost) multiplicity-free coset actions. **94f:20086**
— Folding actions. (English summary) **94b:20024**
Li, Xian Hua Nonsolvable groups characterized by quasisupersolvable subgroups. (Chinese. Chinese summary) **94j:20038**
Lusztig, George A unipotent support for irreducible representations. **94a:20073**
Michel, Jean *see* **Broué, Michel, 94j:20007**
Moy, Allen *see* **Adams, Jeffrey, 94d:20047**
Pasechnik, D. V. New examples of finite $\widetilde{C}_2$-geometries. (English summary) **94c:51025**
Robertson, Edmund F. *see* **Vatansever, Bilal, 94f:20065**
Sin, Peter Extensions of simple modules for $G_2(3^n)$ and ${}^2G_2(3^m)$. (English summary) **94a:20020**
Taylor, Donald E. ★ The geometry of the classical groups. **94d:20028**
Vatansever, Bilal (*with* Robertson, Edmund F.) A new efficient presentation for PSL(2, 13) and the structure of the groups $G(7, m)$. (English and Turkish summaries) **94f:20065**
Vera López, Antonio (*with* Arregi Lizarraga, Jesús María) Conjugacy classes in Sylow p-subgroups of $GL(n, q)$. IV. **94m:20052**
Wan, Zhe Xian Singular pseudosymplectic geometry over finite fields of characteristic 2. (English summary) **94c:51012**
Wang, Yang Xian (*with* Wei, Hong Zeng) Suborbits of the finite unitary group $U_n(\mathbf{F}_{q^2})$ on the transitive set of subspaces of type $(s + 1, 1)$. (Chinese. Chinese summary) **94g:20063**
Wei, Hong Zeng *see* **Wang, Yang Xian, 94g:20063**
Wilson, Robert A. *see* **Kleidman, Peter B., 94e:20020**
Ye, Jia Chen *see* **Hu, Yu Wang, 94a:20026**
Zhu, De Gao The Sylow q-subgroup of $GL(n, F_p)$. (Chinese. English and Chinese summaries) **94g:20024**
Zhu, Xiao-Wei On spinor classifications. **94f:15021**

20G45 Applications to physics; explicit representations

Items with secondary classifications in 20G45

Arcidiacono, Giuseppe A group approach to cosmological problems. (English summary) **94g:83137**
Berenstein, Arkady (*with* Zelevinsky, A. V.) String bases for quantum groups of type A_r. **94g:17019**
Billiet, Yves Representations of point groups spanned by sets of equivalent bipoints or multipoints. (English summary) **94c:20083**
Charlier, Alphonse (*with* Charlier, Marie-France; Hnikich, Driss) Graphite intercalation compounds and symmetry. I. Simple group. (English summary) **94f:82071**
Charlier, Marie-France *see* **Charlier, Alphonse; et al., 94f:82071**
Freund, Peter G. O. p-adics and q-deformations. **94g:11108**
Hnikich, Driss *see* **Charlier, Alphonse; et al., 94f:82071**
Zelevinsky, A. V. *see* **Berenstein, Arkady, 94g:17019**

20G99 None of the above, but in this section

Kim, Dae San *see* **Rabau, Patrick, 94m:20098**
Rabau, Patrick (*with* Kim, Dae San) Products of symplectic groups acting on isotropic subspaces. (English summary) **94m:20098**

Items with secondary classifications in 20G99

Cherednik, I. V. Double affine Hecke algebras, Knizhnik-Zamolodchikov equations, and Macdonald's operators. **94b:17040**
Du, Jie Kazhdan-Lusztig bases and isomorphism theorems for q-Schur algebras. (English summary) **94b:17019**
King, Ronald Curtis (*with* Welsh, T. A.) Construction of graded covariant $GL(m/n)$ modules using tableaux. (English summary) **94h:05095**
Welsh, T. A. *see* **King, Ronald Curtis, 94h:05095**

20Hxx Other groups of matrices [see also 15A30]

20H05 Unimodular groups, congruence subgroups [see also 11F06, 19B37, 22E40, 51F20]

Arlinghaus, F. A. (*with* Vaserstein, Leonid N.) Work of Pere Menal on normal subgroups. (English summary) **94k:20085**
Ellers, Erich W. (*with* Malzan, Jerry) The length problem for the special unitary group generated by positive transvections. (English and Arabic summaries) **94g:20065**
Malzan, Jerry *see* **Ellers, Erich W., 94g:20065**
Mason, A. W. Congruence hulls in SL_n. (English summary) **94i:20085**
(Menal, Pere) *see* **Arlinghaus, F. A., 94k:20085**
Raghunathan, M. S. (*with* Venkataramana, T. N.) The first Betti number of arithmetic groups and the congruence subgroup problem. **94i:20086**
Vaserstein, Leonid N. *see* **Arlinghaus, F. A., 94k:20085**
Venkataramana, T. N. *see* **Raghunathan, M. S., 94i:20086**
Zalesskiĭ, P. A. The structure of the congruence-kernel for SL_2 in the case of a global field of positive characteristic. (Russian. Russian summary) **94g:20066**

Items with secondary classifications in 20H05

Baskan, T. *see* **Bizim, O., 94e:11038**
Bizim, O. (*with* Baskan, T.) Some properties of the modular group. (English and Turkish summaries) **94e:11038**
Chan, Shih-Ping (*with* Lang, Mong-Lung; Lim, Chong-Hai; Tan, Ser Peow) Special polygons for subgroups of the modular group and applications. **94j:11045**
Katznelson, Yonatan R. Singular matrices and a uniform bound for congruence groups of $SL_n(\mathbf{Z})$. **94g:11083**
Lang, Mong-Lung *see* **Chan, Shih-Ping; et al., 94j:11045**
Lim, Chong-Hai *see* **Chan, Shih-Ping; et al., 94j:11045**
Tan, Ser Peow *see* **Chan, Shih-Ping; et al., 94j:11045**
You, Hong On subgroups of Chevalley groups which are generated by commutators. (Chinese summary) **94a:20078**
Zheludev, I. S. Antisymmetry, magnetic symmetry, complete symmetry. (Russian) **94f:82072**

20H10 Fuchsian groups and their generalizations [see also 11F06, 22E40, 30F35, 32Nxx]

Akbas, M. (*with* Singerman, David) The signature of the normalizer of $\Gamma_0(N)$. **94a:20081**
Aslam, M. *see* **Mushtaq, Qaiser, 94g:20067**
Bujalance, Emilio (*with* Costa, Antonio F.; Singerman, David) Application of Hoare's theorem to symmetries of Riemann surfaces. (English summary) **94i:20087**
— (*with* Gamboa, J. M.; Gromadzki, Grzegorz) The full automorphism groups of hyperelliptic Riemann surfaces. (English summary) **94f:20093**
— (*with* Gromadzki, Grzegorz; Singerman, David) On the number of real curves associated to a complex algebraic curve. **94d:20054**
Costa, Antonio F. *see* **Bujalance, Emilio; et al., 94i:20087**
Fang, Ai Nong On the invariants of Möbius groups $M(\mathbf{R}^n)$. (English summary) **94j:20047**
Fine, Benjamin L. (*with* Spellman, Dennis) Counting subgroups of the Hecke groups. **94b:20049**
Gamboa, J. M. *see* **Bujalance, Emilio; et al., 94f:20093**
Gromadzki, Grzegorz *see* **Bujalance, Emilio; et al., 94d:20054** *and* **94f:20093**
Hilden, Hugh M. (*with* Lozano, María Teresa; Montesinos, José María) A characterization of arithmetic subgroups of SL(2, **R**) and SL(2, **C**). **94i:20088**
Ignatov, Yu. A. Rational nonfree points of the complex plane. II. (Russian) **94j:20048**
Lozano, María Teresa *see* **Hilden, Hugh M.; et al., 94i:20088**
May, Coy L. (*with* Zimmerman, Jay) The symmetric genus of finite abelian groups. **94m:20099**
Montesinos, José María *see* **Hilden, Hugh M.; et al., 94i:20088**
Mushtaq, Qaiser (*with* Aslam, M.) Group generated by two elements of orders 2 and 4 acting on real quadratic fields. (English summary) **94g:20067**
Nicholls, P. J. (*with* Waterman, P. L.) Limit points via Schottky pairings. **94a:20082**
Parker, John R. Rational powers of generators of Möbius groups. **94a:20083**
Singerman, David *see* **Akbas, M., 94a:20081**; **Bujalance, Emilio; et al., 94d:20054** *and* **94i:20087**
Spellman, Dennis *see* **Fine, Benjamin L., 94b:20049**
Thompson, John G. Discrete groups and Galois theory. **94c:20082**
Vulakh, L. Ya. Reflections in extended Bianchi groups. **94k:20086**
Waterman, P. L. *see* **Nicholls, P. J., 94a:20082**
Zimmerman, Jay *see* **May, Coy L., 94m:20099**

Items with secondary classifications in 20H10

Basmajian, Ara The orthogonal spectrum of a hyperbolic manifold. **94j:57014**
Beardon, A. F. Pell's equation and two generator free Möbius groups. **94m:11052**
Bowditch, B. H. Geometrical finiteness for hyperbolic groups. (English summary) **94e:57016**
Brunner, A. M. (*with* Burns, R. G.; Oates-Williams, Sheila) On almost primitive elements of free groups with an application to Fuchsian groups. (English summary) **94f:20047**
Bujalance, Emilio (*with* Bujalance, J. A.; Gromadzki, Grzegorz; Martínez, Ernesto) Cyclic trigonal Klein surfaces. **94g:30040**
Bujalance, J. A. *see* **Bujalance, Emilio; et al., 94g:30040**
Burns, R. G. *see* **Brunner, A. M.; et al., 94f:20047**
Cacciari, Leo On the automorphism group of a toroidal hypermap. (English and French summaries) **94e:20050**
Cai, Hui Jing *see* **Wang, Jian, 94a:11056**
Canary, Richard D. (*with* Taylor, Edward) Kleinian groups with small limit sets. **94m:57028**
Chalk, J. H. H. Inequalities for Pell equations and Fuchsian groups. **94a:11048**
Conder, Marston D. E. (*with* Martin, Gaven J.) Cusps, triangle groups and hyperbolic 3-folds. (English summary) **94e:57018**
Culler, Marc (*with* Shalen, Peter B.) The volume of a hyperbolic 3-manifold with Betti number 2. (English summary) **94f:57012**
Drumm, Todd A. Linear holonomy of Margulis space-times. **94m:57076**
Fine, Benjamin L. (*with* Rosenberger, Gerhard; Stille, Michael) Euler characteristic for one-relator products of cyclics. **94j:20035**
Gilman, Jane Recent developments in Nielsen theory and discrete groups. (English summary) **94i:55005**
Goldman, William M. (*with* Parker, John R.) Dirichlet polyhedra for dihedral groups acting on complex hyperbolic space. (English summary) **94d:32044**
González-Acuña, F. (*with* Montesinos, José María) On the character variety of group representations in SL(2, **C**) and PSL(2, **C**). **94k:57022**
Gromadzki, Grzegorz On soluble groups of automorphisms of nonorientable Klein surfaces. (English summary) **94c:30055**
— *see also* **Bujalance, Emilio; et al., 94g:30040**
Harvey, W. J. Modular groups—geometry and physics. **94b:30055**
Hilden, Hugh M. (*with* Lozano, María Teresa; Montesinos, José María) Universal 2-bridge knot and link orbifolds. (English summary) **94i:57012**
Izquierdo Barrios, Milagros Minimal index surface subgroups of non-Euclidean crystallographic groups. **94h:30054**
Jones, Gareth A. (*with* Silver, Stephen A.) Suzuki groups and surfaces. (English summary) **94i:30037**
Kamiya, Shigeyasu Note on discrete subgroups of convergence type of U(1, n; **C**). (English summary) **94h:30055**
Keen, Linda (*with* Maskit, Bernard; Series, Caroline) Geometric finiteness and uniqueness for Kleinian groups with circle packing limit sets. **94b:30053**
Kostov, V. P. Fuchsian linear systems on $\mathbf{CP}^1$ and the Riemann-Hilbert problem. (English and French summaries) **94a:34007**
Kourouniotis, Christos The geometry of bending quasi-Fuchsian groups. **94b:30052**
Kramer, Peter Fricke-Klein geometry for the group Sl(2, **C**). (English summary) **94b:81035**
Lozano, María Teresa *see* **Hilden, Hugh M.; et al., 94i:57012**
Martin, Gaven J. *see* **Conder, Marston D. E., 94e:57018**
Martínez, Ernesto *see* **Bujalance, Emilio; et al., 94g:30040**
Maskit, Bernard *see* **Keen, Linda; et al., 94b:30053**
May, Coy L. Finite groups acting on bordered surfaces and the real genus of a group. **94i:57026**
Montesinos, José María *see* **Hilden, Hugh M.; et al., 94i:57012** *and* **González-Acuña, F., 94k:57022**
Neumann, Walter D. (*with* Reid, Alan W.) Notes on Adams' small volume orbifolds. **94a:57028**
Oates-Williams, Sheila *see* **Brunner, A. M.; et al., 94f:20047**
Parker, John R. *see* **Goldman, William M., 94d:32044**
Potyagailo, L. Finitely generated Kleinian groups in 3-space and 3-manifolds of infinite homotopy type. (English summary) **94m:57030**
Reid, Alan W. *see* **Neumann, Walter D., 94a:57028**
Rosenberger, Gerhard *see* **Fine, Benjamin L.; et al., 94j:20035**
Series, Caroline *see* **Keen, Linda; et al., 94b:30053**
Shalen, Peter B. *see* **Culler, Marc, 94f:57012**
Silver, Stephen A. *see* **Jones, Gareth A., 94i:30037**
Stille, Michael *see* **Fine, Benjamin L.; et al., 94j:20035**
Taylor, Edward *see* **Canary, Richard D., 94m:57028**
Velani, S. L. Diophantine approximation and Hausdorff dimension in Fuchsian groups. **94d:11058**
Voon, Shu-Nan The genus of $SL_2(F_q)$. **94j:57017**
Vulakh, L. Ya. Maximal Fuchsian subgroups of extended Bianchi groups. **94g:11028**
Wang, Jian (*with* Cai, Hui Jing) The analytic theory of quasifinitely generated Kleinian groups. III, IV. (Chinese. English and Chinese summaries) **94a:11056**

20H15 Other geometric groups, including crystallographic groups [see also 51–XX, especially 51F15, and 82D25]

Bacry, Henri Duals of crystallographic groups. Band and quasi-band representations. (English summary) **94e:20063**
— Band representations and duals of the nonsymmorphic crystallographic plane groups pg and $p4gm$. (English summary) **94e:20064**
Bertaut, Erwin-Félix Metrics of transitive symmetry operators in the spaces E^n. (Russian) **94g:20068**
— Similarity laws and transitive symmetry operators in Euclidean hyperspaces E^n. (Russian) **94m:20100**
Billiet, Yves Representations of point groups spanned by sets of equivalent bipoints or multipoints. (English summary) **94c:20083**
Cuypers, Hans A characterization of $SL_2(k)$ by its quadratic action on the natural module. **94g:20069**
Engel, Peter Geometric crystallography. **94i:20089**
Fedorov, E. S. Symmetry of regular systems of figures. (Russian) (*see* **94a:20004**)
(Hatch, Dorian M.) *see* **Kovalev, O. V., 94k:20087**
Iversen, Birger ★ Lectures on crystallographic groups. **94h:20055**
Jablan, Slavik Vlado Simple and multiple antisymmetry colorings of rosettes. (English and Serbo-Croatian summaries) **94c:20085**
— Infinite classes of simple and multiple antisymmetry four-dimensional point groups. (English summary) **94f:20094**
— (*with* Palistrant, A. F.) Symmorphic space groups of simple and multiple colored antisymmetry. (English summary) **94i:20090**
— Pawley multiple antisymmetry three-dimensional space groups $G_3^{l,p'}$. (English summary) **94c:20084**
Kopský, Vojtěch Translation normalizers of Euclidean groups. I. Elementary theory. (English summary) **94j:20049**
— Translation normalizers of Euclidean groups. II. Systematic calculation. (English summary) **94j:20050**
Kovalev, O. V. ★ Representations of the crystallographic space groups. (English summary) **94k:20087**
Lungu, A. P. On the theory W-symmetry groups. (Russian. English, Russian and Moldavian summaries) **94d:20055**
Palistrant, A. F. (*with* Zamorzaev, A. M.) "Wallpaper" p-symmetry groups and their application to the study of plane subgroups of multidimensional Fedorov groups. (Russian) **94e:20065**
— Frieze groups of two-sided rosette P-symmetries and their geometric applications. (Russian. English, Russian and Moldavian summaries) **94g:20070**
— *see also* **Jablan, Slavik Vlado, 94i:20090**
Piunikhin, S. A. The relationship between various definitions of quasicrystallographic groups. (Russian. Russian summary) **94f:20095**
Rudnitskiĭ, O. I. Some properties of the basis invariants of the symmetry groups $G(m, p, n)$, B_n^m and D_n^m. (Russian. Russian summary) **94h:20056**
Shubnikov, A. V. What type of information is contained in a regular system of points? (Russian) (*see* **94a:20004**)
Souvignier, Bernd Irreducible finite integral matrix groups of degree 8 and 10. (English summary) **94i:20091**
(Stokes, Harold T.) *see* **Kovalev, O. V., 94k:20087**
Tao, Rui Bao *see* **Zhong, Li Jun**
Wilker, J. B. The quaternion formalism for Möbius groups in four or fewer dimensions. (English summary) **94c:20086**
(Worthey, Glen C.) *see* **Kovalev, O. V., 94k:20087**
Zamorzaev, A. M. *see* **Palistrant, A. F., 94e:20065**
Zhong, Li Jun (*with* Tao, Rui Bao) The Molien functions of magnetic point groups of the third class. (Chinese. Chinese summary)

Items with secondary classifications in 20H15

Barache, D. (*with* De Bièvre, Stephan; Gazeau, Jean-Pierre) Affine symmetry semi-groups for quasi-crystals. (English summary) **94m:82025**
Bliznyuk, N. A. *see* **Borisov, S. V., 94i:82023**
Boehler, J.-P. *see* **Zheng, Quan Shui, 94i:73008**
Borisov, S. V. (*with* Bliznyuk, N. A.) Pseudoperiodicity in crystal structures. A method for study, programs for calculations, examples. (Russian) **94i:82023**
Božović, Ivan *see* **Božović, Nataša, 94f:20011**
Božović, Nataša (*with* Božović, Ivan) Symmetrized Kronecker squares of irreducible representations of line groups isogonal to C_n and C_{nv}. **94f:20011**

Brandmüller, J. (*with* Winter, F. X.) Addendum to: "Influence of symmetry on the static and dynamic properties of crystals. Calculation of the sets of the Cartesian irreducible tensors for the crystallographic point groups" [Z. Krist. **172** (1985), no. 3-4, 191–232; MR 88b:82072]. (English summary) **94f:82070**
Broué, Michel (*with* Malle, Gunter) Zyklotomische Heckealgebren. [Cyclotomic Hecke algebras] **94m:20095**
Bujalance, Emilio (*with* Gromadzki, Grzegorz; Singerman, David) On the number of real curves associated to a complex algebraic curve. **94d:20054**
Charlier, Alphonse (*with* Charlier, Marie-France; Hnikich, Driss) Graphite intercalation compounds and symmetry. I. Simple group. (English summary) **94f:82071**
Charlier, Marie-France *see* **Charlier, Alphonse; et al., 94f:82071**
Chuprunov, E. V. Fedorov pseudosymmetry of crystal structures. (Russian) **94i:82024**
De Bièvre, Stephan *see* **Barache, D.; et al., 94m:82025**
Èvarestov, R. A. *see* **Smirnov, V. P., 94i:82025**
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Flachsmeyer, Jürgen (*with* Feiste, Uwe; Manteuffel, Karl) ★ Mathematik und ornamentale Kunstformen. (German) [Mathematics and ornamental art forms] **94b:00007**
Florek, Wojciech (*with* Lulek, Tadeusz) Symmorphic space groups of finite crystal lattices. (English summary) **94h:82060**
Fuksa, Jiří (*with* Kopský, Vojtěch) Layer and rod classes of reducible space groups. II. Z-reducible cases. (English summary) **94g:82051**
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Girstmair, Kurt The 17 ornament groups. (English summary) **94m:51022**
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Kato, Shin-ichi Duality for representations of a Hecke algebra. (English summary) **94g:20060**
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Koch, Elke (*with* Fischer, Werner) A crystallographic approach to 3-periodic minimal surfaces. (English summary) **94j:53008**
— (*with* Fischer, Werner) Triply periodic minimal balance surfaces. A correction: "On 3-periodic minimal surfaces" [Z. Krist. **179** (1987), no. 1-4, 31–52; MR 90c:53018] and "On 3-periodic minimal surfaces with noncubic symmetry" [Z. Krist. **183** (1988), no. 1-4, 129–152; MR 90h:53011]. (English summary) **94a:53016**
Kopský, Vojtěch Layer and rod classes of reducible space groups. I. Z-decomposable cases. (English summary) **94g:82050**
— *see also* **Fuksa, Jiří, 94g:82051**
Lifshitz, Ron (*with* Mermin, N. David) Space groups of trigonal and hexagonal quasiperiodic crystals of rank 4. (English summary) **94k:82112**
— (*with* Mermin, N. David) Bravais classes and space groups for trigonal and hexagonal quasiperiodic crystals of arbitrary finite rank. (English summary) **94k:82113**
Loreto, L. (*with* Farinato, R.; Tonetti, M.) Crystallography and plane ornaments: interactive multi-window computer graphics. (English summary) (*see* **94h:00013**)
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Mermin, N. David *see* **Lifshitz, Ron, 94k:82112** *and* **94k:82113**
Natanzon, S. M. Topological invariants and moduli of hyperbolic $N = 2$ Riemannian supersurfaces. (Russian. Russian summary) **94h:32012**
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Shafranovskii, I. I. History of the derivation of the 230 space groups. (Russian) **94d:01003**
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Vainshtein, B. K. The centennial of space groups. (Russian) (*see* **94a:20004**)
Vulakh, L. Ya. Reflections in extended Bianchi groups. **94k:20086**
Walhorn, Claudia *see* **Scharlau, Rudolf, 94j:11057**
Wijnands, F. (*with* Janssen, Ted W. J. M.) Arithmetic equivalence of point groups for quasiperiodic structures. (English summary) **94g:82052**
Winter, F. X. *see* **Brandmüller, J., 94f:82070**
Zabolotnyi, P. A. (*with* Peretyatkov, S. M.) Derivation of nontrivial subgroups and minimal systems of generators of point crystallographic groups by means of a computer. (Russian. English, Russian and Moldavian summaries) **94a:20002**
Zheng, Quan Shui (*with* Spencer, A. J. M.) Tensors which characterize anisotropies. (English summary) **94a:73013**
— (*with* Boehler, J.-P.) The description, classification, and reality of material and physical symmetries. (English summary) **94i:73008**

20H20 Other matrix groups over fields

Bashkirov, E. L. Linear groups generated by two long root subgroups. (Russian. English and Russian summaries) **94e:20066**

Items with secondary classifications in 20H20

Howie, James (*with* Thomas, Richard M.) Proving certain groups infinite. **94h:20041**
Thomas, Richard M. *see* **Howie, James, 94h:20041**
Wehrfritz, B. A. F. Locally soluble finitary skew linear groups. **94m:20080**
— Nilpotence in finitary linear groups. **94k:20056**

20H25 Other matrix groups over rings

Dress, Andreas W. M. (*with* Ryshkov, S. S.) Some systems of generators of the group $GL(n, Z)$ for $n \leq 5$. (Russian. Russian summary) **94a:20084**
Ishibashi, Hiroyuki Criterion for generation by symplectic transvections over a dyadic local ring. (*see* **94d:20002**)
Levchuk, V. M. (*with* Martynova, L. A.) Normal structure of unipotent subgroups of Chevalley groups and the ideals of the associated Lie ring. (Russian) **94g:20071**
Lichtman, A. I. The soluble subgroups and the Tits alternative in linear groups over rings of fractions of polycylic group rings. I. (English summary) **94d:20056**
Martynova, L. A. *see* **Levchuk, V. M., 94g:20071**
Ryshkov, S. S. *see* **Dress, Andreas W. M., 94a:20084**
Suzuki, Kazuo Centers of twisted Chevalley groups over commutative rings. **94e:20067**
Vavilov, N. A. On the normality of an elementary subgroup in the Chevalley group. (Russian. Russian summary) (*see* **94f:00014**)
You, Hong On subgroups of GL_2 over a class of noncommutative rings which are normalized by elementary matrices. (English summary) **94i:20092**

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Arlinghaus, F. A. (*with* Vaserstein, Leonid N.) Work of Pere Menal on normal subgroups. (English summary) **94k:20085**
Belegradek, O. V. Unitriangular groups and undecidability. (Russian) **94k:03055**
— Quasi-unitriangular groups. **94f:03045**
(Menal, Pere) *see* **Arlinghaus, F. A., 94k:20085**
Vaserstein, Leonid N. *see* **Arlinghaus, F. A., 94k:20085**
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You, Hong (*with* Xu, Feng²) On the normal subgroups of unitary groups over Banach algebras. (English summary) **94i:46064**

20H30 Other matrix groups over finite fields

Items with secondary classifications in 20H30

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20Jxx Connections with homological algebra and category theory

20J05 Homological methods in group theory

Andrade, M. G. C. (*with* Fanti, E. L. C.) A relative cohomological invariant for group pairs. (English summary) **94m:20101**
Brady, Thomas The integral cohomology of $\mathrm{Out}_+(F_3)$. (English summary) **94d:20057**
— Free resolutions for semi-direct products. (English summary) **94f:20096**
Bullejos, M. (*with* Carrasco, P.; Cabello, J. G.; Cegarra, A. M.; Garzón, A. R.; Miranda, J. G.) Homotopy methods in the theory of algebraic obstruction. (Spanish) **94d:20058**
Cabello, J. G. *see* **Bullejos, M.; et al., 94d:20058**
Carrasco, P. *see* **Bullejos, M.; et al., 94d:20058**
Cegarra, A. M. *see* **Bullejos, M.; et al., 94d:20058**
Cenkl, B. (*with* Porter, Richard D.) Algorithm for the computation of the cohomology of $\mathcal{F}$-groups. **94a:20085**
Dwyer, William G. (*with* Jekel, Solomon M.; Suciu, Alexander I.) Homology isomorphisms between algebraic groups made discrete. **94f:20097**
Fanti, E. L. C. *see* **Andrade, M. G. C., 94m:20101**
Franco, L. Baer invariants of crossed modules. **94i:20093**
Garzón, A. R. *see* **Bullejos, M.; et al., 94d:20058**
Haran, Dan On the cohomological dimension of Artin-Schreier structures. **94g:20072**
Horadam, K. J. Cohomological periodicity in graph products of combinatorially aspherical groups. **94a:20086**
Jekel, Solomon M. *see* **Dwyer, William G.; et al., 94f:20097**
Kropholler, Peter H. Soluble groups of type $(FP)_\infty$ have finite torsion-free rank. **94j:20051a**
— On groups of type $(FP)_\infty$. (English summary) **94j:20051b**
Kuz'min, Yu. V. On the growth function of direct decompositions associated with homology of free abelianized extensions. (English summary) **94e:20068**
Leary, I. J. A differential in the Lyndon-Hochschild-Serre spectral sequence. (English summary) **94m:20102**
Li, Zun Xian A homological spectral sequence of group products. (English summary) **94b:20050**
Miranda, J. G. *see* **Bullejos, M.; et al., 94d:20058**
Porter, Richard D. *see* **Cenkl, B., 94a:20085**
Reynol Filho, Augusto P-localization of some classes of groups. (English summary) **94m:20103**
Serdyukova, N. A. Dual purities and the relation between P-purities and purities defined by systems of equations. (Russian. English and Russian summaries) **94i:20094**
Stöhr, Ralph Homology of metabelian Lie powers and torsion in relatively free groups. **94b:20051**
— Homology of free Lie powers and torsion in groups. (English summary) **94m:20104**
Suciu, Alexander I. *see* **Dwyer, William G.; et al., 94f:20097**
Talelli, Olympia On groups with $\mathrm{cd}_{\mathbb{Q}} G \leq 1$. **94f:20098**

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Aschbacher, Michael (*with* Segev, Yoav) Locally connected simplicial maps. (English summary) **94k:57036**

Brown, Kenneth S. The geometry of rewriting systems: a proof of the Anick-Groves-Squier theorem. (English summary) **94g:20041**
Brownstein, Alan (*with* Lee, Ronnie) Cohomology of the group of motions of n strings in 3-space. **94k:20073**
Casacuberta, Carles On the rationalization of the circle. (English summary) **94g:55016**
Chiswell, I. M. The Euler characteristic of graph products and of Coxeter groups. **94a:05090**
Chronowski, Antoni Relationships between the theory of n-groups and the Schreier extensions of groups. I. **94k:20052**
Cohen, F. R. (*with* Taylor, Laurence R.) On the representation theory associated to the cohomology of configuration spaces. (English summary) **94i:57057**
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Goichot, François Homologie de Tate-Vogel équivariante. (English summary) [Equivariant Tate-Vogel homology] **94d:55014**
Hilton, Peter John (*with* Militello, Robert) Some remarks on almost finitely generated nilpotent groups. (English summary) **94c:20063**
Holt, Derek F. (*with* Plesken, W.) A cohomological criterion for a finitely presented group to be infinite. **94c:20057**
Kim, Dae Kyung (*with* Song, Hyun-Jong) On the boundary operator ∂_3 of period 4-groups. **94m:57003**
Krstić, Sava (*with* Vogtmann, Karen) Equivariant outer space and automorphisms of free-by-finite groups. **94c:20067**
Lee, Ronnie *see* **Brownstein, Alan, 94k:20073**
Meinert, Holger The geometric invariants of direct products of virtually free groups. **94m:20082**
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Mislin, Guido Cohomologically central elements and fusion in groups. **94d:55032**
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20J06 Cohomology of finite groups

Adem, Alejandro On the geometry and cohomology of finite simple groups. **94e:20069**
Asai, Tsunenobu (*with* Sasaki, Hiroki) The mod 2 cohomology algebras of finite groups with dihedral Sylow 2-subgroups. (English summary) **94j:20052**
Benson, David John The image of the transfer map. **94i:20095**
— (*with* Carlson, Jon F.) Erratum to: "The cohomology of extraspecial groups" [Bull. London Math. Soc. **24** (1992), no. 3, 209–235; MR 93b:20087]. **94f:20099**
— (*with* Feshbach, M.) On the cohomology of split extensions. (English summary) **94i:20096**
— (*with* Carlson, Jon F.) Projective resolutions and Poincaré duality complexes. **94f:20100**
Carlson, Jon F. Varieties and modules of small dimension. **94d:20059**
— Systems of parameters and the structure of cohomology rings of finite groups. **94m:20105**
— *see also* **Benson, David John, 94f:20099** *and* **94f:20100**
Chatterjee, Ramananda *see* **Lulek, Tadeusz, 94d:20062**
Clark, Jonny Mod-2 cohomology of the group $U_3(4)$. **94m:20106**
Ellis, Graham J. (*with* Hardie, K. A.) On a Mayer-Vietoris sequence in the cohomology of groups. (English summary) **94d:20060**
Feshbach, M. *see* **Benson, David John, 94i:20096**
Hardie, K. A. *see* **Ellis, Graham J., 94d:20060**
Huebschmann, Johannes Chern classes for metacyclic groups. **94h:20057**
Kleshchev, A. S. (*with* Premet, A. A.) On second degree cohomology of symmetric and alternating groups. **94c:20087a**
— (*with* Premet, A. A.) Corrigenda: "On second degree cohomology of symmetric and alternating groups". **94c:20087b**
Leary, I. J. The mod-p cohomology rings of some p-groups. **94a:20087**
Linnell, Peter A. ★ Cohomology of finite groups. **94k:20088**
Lulek, Tadeusz Mac Lane method for determination of extensions of finite groups. I. A review in the context of structure of condensed matter. (English summary) **94d:20061**
— (*with* Chatterjee, Ramananda) Mac Lane method for determination of extensions of finite groups. II. An example for the dihedral group D_2. (English summary) **94d:20062**
Niwasaki, Takashi On codimensions of maximal ideals in cohomology rings. **94e:20070**
Opolka, Hans Group extensions and cohomology groups. (English summary) **94b:20052**
Premet, A. A. *see* **Kleshchev, A. S., 94c:20087a** *and* **94c:20087b**
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Thomas, Charles B. Elliptic cohomology of the classifying space of the Mathieu group M_{24}. (English summary) **94k:20089**
Webb, Peter J. Graded G-sets, symmetric powers of permutation modules, and the cohomology of wreath products. (English summary) **94d:20063**
— Two classifications of simple Mackey functors with applications to group cohomology and the decomposition of classifying spaces. (English summary) **94f:20101**

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Altschüler, Daniel (*with* Coste, Antoine) Invariants of three-manifolds from finite group cohomology. (English summary) **94m:57038**
Benson, David John (*with* Greenlees, J. P. C.) The action of the Steenrod algebra on Tate cohomology. (English summary) **94b:55023**
Broto, Carlos (*with* Henn, Hans-Werner) Some remarks on central elementary abelian p-subgroups and cohomology of classifying spaces. **94c:57060**
Cohen, F. R. (*with* Taylor, Laurence R.) On the representation theory associated to the cohomology of configuration spaces. (English summary) **94i:57057**
Coste, Antoine *see* **Altschüler, Daniel, 94m:57038**
Greenlees, J. P. C. *see* **Benson, David John, 94b:55023**
Henn, Hans-Werner *see* **Broto, Carlos, 94c:57060**
Hwang, Eunmi Choi Projective representations, abelian F-groups, and central extensions. **94k:20018**
Pirashvili, T. I. H^3 and models for the homotopy theory. (Russian) **94i:18010**
Roggenkamp, K. W. (*with* Scott, Leonard L.) Automorphisms and nonabelian cohomology: an algorithm. (English summary) **94i:20010**
Scott, Leonard L. *see* **Roggenkamp, K. W., 94i:20010**
Sin, Peter On the 1-cohomology of the groups $G_2(2^n)$. (English summary) **94c:20079**
Stammbach, Urs Vertices of certain indecomposable modules and the computation of cohomology. **94h:20015**
Tambara, D. On multiplicative transfer. **94a:19002**
Taylor, Laurence R. *see* **Cohen, F. R., 94i:57057**
Thévenaz, Jacques Most finite groups are p-nilpotent. **94i:20035**
Weidner, Michael The Loewy layers of principal indecomposable modules. **94b:20015**
Yagita, Nobuaki Cohomology for groups of $\operatorname{rank}_p G = 2$ and Brown-Peterson cohomology. **94k:55008**

20J15 Category of groups

Items with secondary classifications in 20J15

Franco, L. Baer invariants of crossed modules. **94i:20093**

20J99 None of the above, but in this section

Aschbacher, Michael (*with* Smith, Stephen D.) On Quillen's conjecture for the p-groups complex. **94g:20073**
Linnell, Peter A. An example concerning the Bass conjecture. **94c:20088**
Smith, Stephen D. *see* **Aschbacher, Michael, 94g:20073**

Items with secondary classifications in 20J99

Cohen, F. R. Mapping class groups and classical homotopy theory. **94i:57004**

20Kxx Abelian groups

20K01 Finite abelian groups

Arnold, David M. (*with* Richman, Fred; Vinsonhaler, C.) Representations of finite posets and valuated groups. **94d:20064**
Chiaselotti, Giampiero Sums of distinct elements in finite abelian groups. (Italian summary) **94j:20053**
Corrádi, Keresztély (*with* Szabó, Sándor) A contribution to Keller's conjecture. (English summary) **94a:20088**
— (*with* Szaboó, S.) An elementary proof for a result on simulated factoring.
Gallian, Joseph A. (*with* Moulton, David) When is Z_n the only group of order n?
Huang, Ben Wen Construction of finite abelian groups with $|A(G)| = 2^t pqr$ $(1 \le t \le 3)$. (Chinese. English and Chinese summaries)
Moore, Marion E. Finite cyclic groups with two or more generators. (English summary)
Moulton, David *see* **Gallian, Joseph A.**
Muñoz del Sol, Longino *see* **Subit Gómez, Rosa**
Richman, Fred *see* **Arnold, David M.; et al., 94d:20064**
Subit Gómez, Rosa (*with* Muñoz del Sol, Longino) Characterization of the annihilator of the subring associated with a Sylow p-subgroup of the automorphism group of a finite abelian p-group. (Spanish. English and Spanish summaries)
Szabó, Sándor *see* **Corrádi, Keresztély, 94a:20088**
Szaboó, S. *see* **Corrádi, Keresztély**
Vinsonhaler, C. *see* **Arnold, David M.; et al., 94d:20064**

Items with secondary classifications in 20K01

Corrádi, Keresztély (*with* Szabó, Sándor) A generalized form of Hajós' theorem. (English summary) **94f:20044**
— (*with* Szabó, Sándor) Factoring by subsets of cardinality of prime power. (English summary) **94f:20045**
Ivić, Aleksandar An asymptotic formula involving the enumerating function of finite abelian groups. (English summary) **94e:11105**
Szabó, Sándor *see* **Corrádi, Keresztély, 94f:20044** *and* **94f:20045**

20K10 Torsion groups, primary groups and generalized primary groups

Anferova, L. P. Equivalent embeddings of a primary abelian group in the direct sum of quasicyclic p-groups. (Russian) **94d:20065**
Cutler, Doyle (*with* Dimitrić, Radoslav) Valuated vector spaces, Kurepa's hypothesis and abelian p-groups. (English summary) **94m:20107**
Dimitrić, Radoslav *see* **Cutler, Doyle, 94m:20107**
Hill, Paul (*with* Megibben, Charles) Subsocles supporting isotype and balanced subgroups. (English summary) **94k:20090**
Irwin, John (*with* Keef, Patrick) Primary abelian groups and direct sums of cyclics. **94h:20058**
Keef, Patrick Extending homomorphisms on the socles of primary abelian groups. **94g:20074**
— Classes of primary abelian groups determined by valuated subgroups. (English summary) **94g:20075**
— *see also* **Irwin, John, 94h:20058**
Megibben, Charles *see* **Hill, Paul, 94k:20090**

Items with secondary classifications in 20K10

Abdulla, Hattem M. A. On minimal neat subgroups. (English summary) **94m:20110**
Behler, Raimund (*with* Göbel, Rüdiger) Abelian p-groups of arbitrary length and their endomorphism rings. **94m:20111**

Danchev, P. V. Sylow p-subgroups of commutative group algebras. **94k:20010**
Göbel, Rüdiger *see* **Behler, Raimund, 94m:20111**
Hill, Paul Equivalence theorems. **94d:20067**
Mekler, Alan H. (*with* Oikkonen, Juha) Abelian p-groups with no invariants. (English summary) **94h:03057**
Oikkonen, Juha *see* **Mekler, Alan H., 94h:03057**

20K15 Torsion free groups, finite rank

Arnold, David M. (*with* Vinsonhaler, C.) Finite rank Butler groups: a survey of recent results. **94c:20089**
— Butler groups, representations of finite posets, and modules over multiple pullback rings. **94a:20089**
— (*with* Dugas, Manfred) Butler groups with finite typesets and free groups with distinguished subgroups. **94c:20090**
— (*with* Dugas, Manfred) Block rigid almost completely decomposable groups and lattices over multiple pullback rings. (English summary) **94f:20102**
Dugas, Manfred (*with* Oxford, Ed) Near isomorphism invariants for a class of almost completely decomposable groups. **94d:20066**
— *see also* **Arnold, David M., 94c:20090** *and* **94f:20102**
Frey, Bernhard (*with* Mutzbauer, Otto) Regulierende Untergruppen und der Regulator fast vollständig zerlegbarer Gruppen. [Regulating subgroups and the regulator of almost completely decomposable groups] **94b:20053**
Goeters, H. Pat (*with* Ullery, William) Quasi-summands of a certain class of Butler groups. **94f:20103**
Grigutis, R. Direct decomposition of torsion-free homogeneous abelian groups of finite rank. (Russian. English and Lithuanian summaries) **94e:20071**
Hill, Paul On the structure of torsion-free groups of infinite rank. **94h:20059**
— (*with* Megibben, Charles) Butler groups cannot be classified by certain invariants. (English summary) **94k:20091**
— Equivalence theorems. **94d:20067**
Höfling, Burkhard On direct summands of Butler $\mathscr{B}^{(1)}$-groups. **94c:20091**
Krylov, P. A. Some examples of quasipure injective and transitive torsion-free abelian groups. (Russian. Russian summary) **94i:20097**
Lewis, Wayne Almost completely decomposable groups with two critical types. **94f:20104**
Megibben, Charles *see* **Hill, Paul, 94k:20091**
Metelli, Claudia On direct sums of $\mathscr{B}^{(1)}$-groups. (English summary) **94d:20068**
Müller, Edgar (*with* Mutzbauer, Otto) Jordan-Hölder-Gruppen. [Jordan-Hölder groups] **94k:20092**
Mutzbauer, Otto Regulating subgroups of Butler groups. **94c:20092**
— *see also* **Frey, Bernhard, 94b:20053** *and* **Müller, Edgar, 94k:20092**
Oxford, Ed *see* **Dugas, Manfred, 94d:20066**
Ullery, William *see* **Goeters, H. Pat, 94f:20103**
Vinsonhaler, C. (*with* Wickless, W. J.) Homological dimensions of completely decomposable groups. **94c:20093**
— *see also* **Arnold, David M., 94c:20089**
Wickless, W. J. *see* **Vinsonhaler, C., 94c:20093**

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Albrecht, Ulrich F. Quasi-decomposition of abelian groups and Baer's lemma. **94d:20073**
— (*with* Goeters, H. Pat; Megibben, Charles) Zero-one matrices with an application to abelian groups. (English summary) **94k:15011**
Arnold, David M. (*with* Vinsonhaler, C.) Almost split sequences and representations of finite posets. **94h:16019**
Göbel, Rüdiger Modules with distinguished submodules and their endomorphism algebras. **94c:16018**
Goeters, H. Pat Cobalanced torsion-free abelian groups. **94d:20070**
— *see also* **Albrecht, Ulrich F., et al., 94k:15011**
Megibben, Charles *see* **Albrecht, Ulrich F., et al., 94k:15011**
Pierce, R. S. (*with* Vinsonhaler, C.) Quasi-realizing modules. **94c:20097**
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Xiao, Wen Jun A generalization of quasinilpotent groups and Fitting subgroups. (Chinese. English and Chinese summaries) **94f:20080**

20K20 Torsion free groups, infinite rank

Bican, Ladislav (*with* Fuchs, László[1]) Subgroups of Butler groups. **94k:20093**
— Butler groups of infinite rank. **94k:20094**
Chekhlov, A. R. Indecomposable torsion-free abelian QCPI-groups of p-rank $\geq 2^{\aleph_0}$. (Russian. Russian summary) **94a:20090**
Dugas, Manfred (*with* Olberding, Bruce) E-uniserial abelian groups. **94a:20091**
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— Set-theoretic methods: the uses of gamma invariants. **94d:20069**
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— (*with* Rangaswamy, K. M.) Butler groups that are unions of subgroups with countable typesets. **94f:20106**
— (*with* Metelli, Claudia; Rangaswamy, K. M.) Corank one subgroups of completely decomposable abelian groups. **94m:20109**
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Giovannitti, Anthony J. Torsion-free abelian groups with precobalanced finite rank pure subgroups. **94c:20095**
Goeters, H. Pat Cobalanced torsion-free abelian groups. **94d:20070**
Gorchakov, Yu. M. (*with* Spasskaya, T. A.) On p-primitive groups. (Russian) **94d:20071**
Hill, Paul (*with* Megibben, Charles) Equivalence theorems for torsion-free groups. **94g:20076**
Kamo, Shizuo *see* **Eda, Katsuya; et al., 94m:20108**
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Metelli, Claudia *see* **Fuchs, László[1], 94c:20094** *and* **94m:20109**
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Rangaswamy, K. M. Butler groups of infinite rank. III. **94i:20098**
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Rychkov, S. V. Abelian k-separable groups. (Russian. Russian summary) **94a:20092**
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— (*with* Dugas, Manfred) Butler groups with finite typesets and free groups with distinguished subgroups. **94c:20090**
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Göbel, Rüdiger Radicals in abelian groups. **94i:20100**
— (*with* Goldsmith, B.) Cotorsion-free algebras as endomorphism algebras in L—the discrete and topological cases. (English summary) **94h:16080**
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20K21 Mixed groups

Samsonova, I. V. Quasi-$\mathscr{E}_M$-injective abelian groups. (Russian) **94d:20072**

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20K25 Direct sums, direct products, etc.

Items with secondary classifications in 20K25

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Goeters, H. Pat (*with* Ullery, William) Quasi-summands of a certain class of Butler groups. **94f:20103**
Ullery, William *see* **Goeters, H. Pat, 94f:20103**

20K26 Indecomposable groups

Items with secondary classifications in 20K26

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20K27 Subgroups

Abdulla, Hattem M. A. Pure-1-2-3 subgroups in abelian groups. (English summary) **94i:20099**
— On minimal neat subgroups. (English summary) **94m:20110**
Serdyukova, N. A. On generalizations of purity. (Russian. Russian summary) **94a:20094**

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Hill, Paul (*with* Megibben, Charles) Subsocles supporting isotype and balanced subgroups. (English summary) **94k:20090**
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Megibben, Charles *see* **Hill, Paul, 94k:20090**
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20K30 Automorphisms, homomorphisms, endomorphisms, etc.

Albrecht, Ulrich F. Quasi-decomposition of abelian groups and Baer's lemma. **94d:20073**
— (*with* Faticoni, Theodore G.) Abelian groups flat as modules over their endomorphism ring. **94e:20073**
Behler, Raimund (*with* Göbel, Rüdiger) Abelian p-groups of arbitrary length and their endomorphism rings. **94m:20111**
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Hausen, Jutta Abelian groups whose semi-endomorphisms form a ring. **94c:20096**

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Pierce, R. S. (*with* Vinsonhaler, C.) Quasi-realizing modules. **94c:20097**
Reid, J. D. *see* **Niedzwecki, G. P., 94j:20054**
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Dugas, Manfred (*with* Oxford, Ed) Near isomorphism invariants for a class of almost completely decomposable groups. **94d:20066**
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Rychkov, S. V. Abelian k-separable groups. (Russian. Russian summary) **94a:20092**
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Wagner, Frank O. Quasi-endomorphisms in small stable groups. (English summary) **94i:03077**
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20K35 Extensions

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20K40 Homological and categorical methods

Dugas, Manfred (*with* Irwin, John) On thickness and decomposability of abelian p-groups. (English summary) **94k:20095**
Göbel, Rüdiger Radicals in abelian groups. **94i:20100**
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Mekler, Alan H. (*with* Shelah, Saharon) Every coseparable group may be free. (English summary) **94e:20074**
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— (*with* Faticoni, Theodore G.) Abelian groups flat as modules over their endomorphism ring. **94e:20073**
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Ries, Heather On extensions of pseudo-integers. (English summary) **94m:20112**
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20K45 Topological methods [see also 22A05, 22B05]

Comfort, W. W. (*with* van Mill, Jan) Groups with only resolvable group topologies. (English summary) **94f:20107**
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Comfort, W. W. (*with* Remus, Dieter) Imposing pseudocompact group topologies on abelian groups. (English summary) **94g:22006**
Cutler, Doyle (*with* Dimitrić, Radoslav) Valuated vector spaces, Kurepa's hypothesis and abelian p-groups. (English summary) **94m:20107**
Dimitrić, Radoslav *see* **Cutler, Doyle, 94m:20107**
Eda, Katsuya (*with* Kamo, Shizuo; Ohta, Haruto) Abelian groups of continuous functions and their duals. (English summary) **94m:20108**
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Morris, Sidney A. (*with* Pestov, V. G.) Open subgroups of free abelian topological groups. **94j:22001**
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Brennan, Joseph P. (*with* Piotrowski, Wiktor) The group of periods of the sum of two functions. (English summary) **94k:20096**
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Dugas, Manfred (*with* Faticoni, Theodore G.) Cotorsion-free abelian groups: cotorsion as modules over their endomorphism rings. **94g:20078**
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Krasikov, Ilia (*with* Schönheim, Johanan) On near subgroups. (English summary) **94h:20061**
Mader, Adolf (*with* Mutzbauer, Otto) Almost completely decomposable groups with cyclic regulator quotients. **94g:20079**
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Chan, Wai-Kiu (*with* Siu, Man Keung; Ma, Siu Lun) Nonexistence of certain perfect arrays. (English summary) **94k:05038**
Corovei, I. Some functional equations connected with quadratic forms. **94i:39007**
Elliott, George A. (*with* Mundici, Daniele) A characterisation of lattice-ordered abelian groups. **94e:06010**
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Qi, Zhi Nan Total subsemigroups of abelian groups. (Chinese. Chinese summary) **94d:20090**
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20Lxx Groupoids (i.e. small categories in which all morphisms are isomorphisms) {For sets with a single binary operation, see 20N02; for topological groupoids, see 22A22, 58H05.}

20L05 General theory

Drápal, Aleš On a class of commutative groupoids determined by their associativity triples. (English summary) **94g:20080**
Endres, N. Semidirect products of symmetric groupoids. **94f:20108**
Hentzel, Irvin Roy (*with* Jacobs, David P.; Muddana, Sekhar V.) Experimenting with the identity $(xy)z = y(zx)$. (English summary) **94i:20101**
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Lawson, Mark V. Extending partial isomorphisms and McAlister's covering theorem. **94m:20129**

20L13 Mappings of groupoids

Satko, Ladislav The greatest semigroup image of a groupoid. (English summary) **94g:20081**

20L15 Connections with topology

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Aof, Mohamed El-Saeed Abbdel-Fattah (*with* Brown, Ronald) The holonomy groupoid of a locally topological groupoid. (English summary) **94e:22008**
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Lawson, Mark V. Congruences on ordered groupoids. **94i:20102**
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20Mxx Semigroups

(Lyapin, E. S.) *see* **Partitions and holomorphic mappings of semigroups, 94j:20056**

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Hall, T. E. G. B. Preston: his work so far. (*see* **94c:20001**)
— *see also* **Conference: Semigroup Theory, 94c:20001**
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(Meakin, John C.) *see* **Conference: Semigroup Theory, 94c:20001**
(Preston, G. B.) *see* **Conference: Semigroup Theory, 94c:20001** *and* **Hall, T. E., (94c:20001)**

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Semigroup Theory ★ Monash Conference on Semigroup Theory. **94c:20001**
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20M05 Free semigroups, generators and relations, word problems

Abdulrab, Habib (*with* Maksimenko, Marianne) General solution of mirror equation. (English summary) **94m:20113**
Auinger, Karl Free locally inverse *-semigroups. **94k:20097**
Birget, Jean-Camille (*with* Margolis, Stuart W.; Meakin, John C.) The word problem for inverse monoids presented by one idempotent relator. (English summary) **94j:20057**
Brazil, Marcus Growth functions for some one-relator monoids. **94f:20110**
Campillo López, Antonio (*with* Pisón, Pilar) L'idéal d'un semi-groupe de type fini. (English and French summaries) [The ideal of a finitely generated semigroup] **94b:20055**
Cho, Jung R. (*with* Pride, Stephen J.) Embedding semigroups into groups, and the asphericity of semigroups. **94d:20074**
Choffrut, Christian Conjugacy in free inverse monoids. (English and French summaries) **94j:20058**
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Dehornoy, Patrick The naming problem for left distributivity. (English summary) **94j:20059**
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Dershowitz, Nachum Semigroups satisfying $x^{m+n} = x^n$. (English summary) (*see* **94f:68012**)
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Duchamp, G. (*with* Krob, Daniel) Free partially commutative structures. (English summary) **94b:20057**
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Fouché, W. L. Reflective properties of free semigroups. **94i:20103**
Goldstein, Richard Z. (*with* Teymouri, J.) Adjan's theorem and conjugacy in semigroups. (English summary) **94i:20104**
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Grounds, W. V. (*with* Silberger, D. M.) How many primitive words? (English summary) **94m:20115**
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Justin, Jacques (*with* Pirillo, Giuseppe) Intracommutativity properties for groups and semigroups. **94a:20099**
— (*with* Pirillo, Giuseppe) Factorial languages and some combinatorial properties of semigroups. (English summary) **94j:20061**
Katsura, Masashi On a conjecture of Y. Roos concerning a decomposition of the total commutation. **94j:20062**
Krause, Henning Endomorphisms of words in a quiver. (English summary) **94i:20105**
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Lallement, Gérard J. (*with* Rosaz, Laurent) Residual finiteness of a class of semigroups presented by a single relation. **94k:20098**
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Margolis, Stuart W. (*with* Pin, Jean-Eric) New results on the conjecture of Rhodes and on the topological conjecture. **94d:20075**
— *see also* **Birget, Jean-Camille; et al., 94j:20057**
Meakin, John C. (*with* Sapir, M. V.) On a class of inverse submonoids of the polycyclic monoid. **94e:20077**
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Migliorini, F. (*with* Szép, J.) Chains and cycles in the subsets C_n of the finitely generated and periodic semigroups. I. (English summary) **94f:20112**
— (*with* Szép, J.) Chains and cycles in the subsets C_n of the finitely generated and periodic semigroups. II. (English summary) **94j:20063**
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Néraud, Jean On the rank of the subsets of a free monoid. (French summary) **94e:20078**
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— Properties of integers and finiteness conditions for semigroups. (English summary) **94e:20080**
— *see also* **Justin, Jacques, 94a:20099** *and* **94j:20061**
Pisón, Pilar *see* **Campillo López, Antonio, 94b:20055**
Pride, Stephen J. *see* **Cho, Jung R., 94d:20074**
Reis, C. M. On some nonrational congruences on free commutative semigroups. **94i:20106**
Robertson, Edmund F. (*with* Ünlü, Yusuf) On semigroup presentations. (English summary) **94a:20100**
Rosaz, Laurent *see* **Lallement, Gérard J., 94k:20098**
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Shneerson, L. M. On identities and growth functions in semigroups. (*see* **94c:20001**)
Silberger, D. M. *see* **Grounds, W. V., 94m:20115**
Simon, Imre A short proof of the factorization forest theorem. **94d:20076**
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Burroni, Albert Higher-dimensional word problems with applications to equational logic. (English summary) **94m:03070**
Charatonik, Witold (*with* Pacholski, Leszek) Word equations with two variables. **94m:20134**
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— On equations in words and lengths with endomorphisms. (Russian) **94i:20054**
Ellingsen, Harold W., Jr. Graphs and the growth of monomial algebras. **94m:16031**
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Roiz, E. N. On a semilattice translation in the lattice of quasivarieties of semigroups. (Russian) (*see* **94j:00017**)
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— (*with* Volkov, Michael V.) On the joins of semigroup varieties with the variety of commutative semigroups. (English summary) **94d:20078**
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— Semigroup varieties with a modular subvariety lattice. III. (Russian) **94j:20068**
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Wismath, Shelly L. Joins of some varieties of semigroups. **94f:20115**
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Baader, Franz Unification in varieties of completely regular semigroups. (English summary) **94j:68261**
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McAlister, D. B. Quasi-ideal embeddings and Rees matrix covers for regular semigroups. **94d:20083**
Pastijn, Francis (*with* Yan, Xiaoying) Completely regular semigroups in the variety generated by the bicyclic semigroup. (English summary) **94k:20108**
— *see also* **Antonippillai, A., 94c:20100**
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Ackerman, Michael (*with* McMorris, F. R.; Seif, Steven) Chordal intersection graphs of semigroups. **94m:20118**
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— *see also* **Ćirić, Miroslav, 94i:20112** *and* **94k:20101**
Carscadden, Rob The orbit structure of finite monoids. (English summary) **94k:20100**
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— (*with* Bogdanović, Stojan) Normal band compositions of semigroups. (English summary) **94i:20112**
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Dickinson, Robert (*with* Tamura, Takayuki) Construction of subdirect products of groups of integers. I. (English summary) **94i:20113**
El-Qallali, Abdulsalam Abundant semigroups with a multiplicative type A transversal. (English summary) **94h:20062**
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Gould, Victoria Abundant enlargements of monoids. **94f:20132**
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— On intraregular ordered semigroups. **94b:06021**
Ovsyannikov, A. Ya. *see* **Shevrin, L. N., 94m:20125**
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20M11 Radical theory

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Lam, Clement S. Some characterizations of the hereditary pretorsion class of semigroup automata. (English summary) **94h:20064**
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Bogacheva, E. V. On the absolute approximability of commutative semigroups by bicharacters. (Russian) **94e:20084**
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Estrada, Mario (*with* López, Alejandro) A note on symmetric semigroups and almost arithmetic sequences.
Guţan, Marin Sur une propriété de permutation des semi-groupes. (English and French summaries) [A permutation property in semigroups] **94j:20074**
Jiang, Zhong Hao A generalization of a theorem of Mal'cev. (English summary) **94m:20124**
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Kisielewicz, Andrzej (*with* Newrly, Norbert) Polynomial density of commutative semigroups. (English summary) **94g:20088**
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Grillet, Pierre-Antoine Some congruences on free commutative semigroups. (English summary) **94m:20114**
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Khovanskiĭ, A. G. The Newton polytope, the Hilbert polynomial and sums of finite sets. (Russian. Russian summary) **94e:14068**
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Liu, Zhong Kui A characterization of regular monoids by flatness of left acts. **94a:20110**
McAlister, D. B. Quasi-ideal embeddings and Rees matrix covers for regular semigroups. **94d:20083**
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Pastijn, Francis (*with* Yan, Xiaoying) Completely regular semigroups in the variety generated by the bicyclic semigroup. (English summary) **94k:20108**
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Yi, Bao Lin Left Clifford congruences on regular semigroups. (Chinese. English and Chinese summaries) **94k:20111**
Zhang, Chuan Zhi E-quasiclosed regular semigroups with a primitive idempotent element. (Chinese. English and Chinese summaries) **94k:20112**

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Rajan, A. R. Topological regular semigroups and topological inductive groupoids. **94e:22006**
Trotter, P. G. Unary semigroup joins of varieties of inverse and completely regular semigroups. (English summary) **94f:20123**
— A nonlocal variety of completely regular monoids with a member of complexity 2. **94d:20079**
Zhang, Chuan Zhi Necessary and sufficient conditions for orthodox semigroups. (Chinese. English and Chinese summaries) **94c:20108**

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Aglianò, Paolo On combinatorial inverse semigroups. (English summary) **94k:20113**
Auinger, Karl Free strict inverse semigroups. (English summary) **94e:20088**
— The congruence lattice of a combinatorial strict inverse semigroup. (English summary) **94k:20114**
Cowan, David (*with* Reilly, Norman R.) Characterizations of Schützenberger graphs in terms of their automorphism groups and fundamental groups. (English summary) **94g:20092**
FitzGerald, D. G. Topics in dual symmetric inverse semigroups. **94h:20066**
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Jones, Peter R. Free products of inverse semigroups: a survey, with examples. **94f:20121**
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— A note on a paper of Joubert. **94j:20076**
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Mills, Janet E. Factorizable semigroup of partial symmetries of a regular polygon. (English summary) **94j:20077**
Reilly, Norman R. Varieties of inverse semigroups. **94h:20067**
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Trotter, P. G. Unary semigroup joins of varieties of inverse and completely regular semigroups. (English summary) **94f:20123**
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Choffrut, Christian Conjugacy in free inverse monoids. (English and French summaries) **94j:20058**
— Conjugacy in free inverse monoids. (English and French summaries) **94e:20076**
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Horadam, K. J. (*with* Farr, Graham E.) The conjugacy problem for HNN extensions with infinite cyclic associated groups. (English summary) **94f:20067**
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20M19 Orthodox semigroups

Goberstein, Simon M. Bundles of correspondences of orthodox semigroups. **94h:20068**
Seth, A. Idempotent-separating congruences on orthodox Γ-semigroups. (English summary) **94h:20069**
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20M20 Semigroups of transformations, etc. [see also 47D03, 47H20, 54H15]

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20M25 Semigroup rings, multiplicative semigroups of rings [see also 16S36, 16Y60]

Beidar, K. I. (*with* Knauer, Ulrich; Mikhalëv, A. V.) An example of two von Neumann regular rings with nonisomorphic Morita equivalent multiplicative semigroups. (English summary) **94k:20117**
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Ćirić, Miroslav *see* **Bogdanović, Stojan, 94i:20124**
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Kelarev, A. V. On homogeneous radicals of semigroup rings of commutative semigroups. (English summary) **94g:20093**
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Knauer, Ulrich *see* **Beidar, K. I.; et al., 94k:20117**
Li, Fang On the weak regularity of semigroup rings. (English summary) **94m:20132**
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— Torsion-free abelian semigroup rings. VIII. **94j:20079**
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— Algebras of cancellative semigroups. (English summary) **94k:16051**
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20M35 Semigroups in automata theory, linguistics, etc. [see also 03D05, 68Qxx, 68S05]

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20M50 Connections of semigroups with homological algebra and category theory

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Cacioppo, Robert Non-finitely based pseudovarieties and inherently non-finitely based varieties. **94g:08008**
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Mlček, Josef Valuations of lines. (English summary) **94m:03088**
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20Nxx Other generalizations of groups

20N02 Sets with a single binary operation (groupoids)

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— (*with* Solarin, Adewale Roland T.) Bol loops of order $4pq$. (English summary) **94e:20095**
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Solarin, Adewale Roland T. *see* **Chiboka, V. O., 94e:20095; 94f:20133** *and* **94i:20134**
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Ursu, V. I. Quasi-identities of finitely generated commutative Moufang loops. (Russian. Russian summary) **94f:20137**
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20N07 Mappings of loops

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20N10 Ternary systems (heaps, semiheaps, heapoids, etc.)

Volenec, Vladimir Heaps and right solvable Ward groupoids. **94a:20118**

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20N20 Hypergroups

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De Salvo, Mario Hypergroups and algebras. (English summary) **94d:20092**
— On the number of K_H hypergroups. **94b:20065**
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20P05 Probabilistic methods in group theory

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22–XX Topological groups, Lie groups {For transformation groups, see 54H15, 57Sxx, 58–XX. For abstract harmonic analysis, see 43–XX.}

22–01 Instructional exposition (textbooks, tutorial papers, etc.)

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22–02 Research exposition (monographs, survey articles)

(Groza, A. A.) *see* **Vilenkin, N. Ya., 94m:22001**
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22–03 Historical (must also be assigned at least one classification number from Section 01)

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(Cartan, Élie) *see* **Akivis, M. A., 94f:01029**
(Czichowski, Günter) *see* **Lie, Sophus; et al., 94e:01034**
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22–04 Explicit machine computation and programs (not the theory of computation or programming)

Snow, Dennis M. Computing tensor product decompositions. (English summary) **94e:22001**

22–06 Proceedings, conferences, collections, etc.

(Eastwood, Michael G.) *see* **Penrose transform and analytic cohomology in representation theory, 94e:22002**
(Sally, Paul J., Jr.) *see* **Representation theory and automorphic forms, 94e:22003**
(Wallach, Nolan R.) *see* **Representation theory and automorphic forms, 94e:22003**
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(Zierau, Roger) *see* **Penrose transform and analytic cohomology in representation theory, 94e:22002**

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The Penrose Transform and Analytic Cohomology in Representation Theory ★ The Penrose transform and analytic cohomology in representation theory. **94e:22002**
Contemporary Mathematics ★ The Penrose transform and analytic cohomology in representation theory. **94e:22002**
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Penrose transform and analytic cohomology in representation theory ★ The Penrose transform and analytic cohomology in representation theory. **94e:22002**
Representation theory and automorphic forms ★ Representation theory and automorphic forms. **94e:22003**
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22Axx Topological and differentiable algebraic systems {For topological rings and fields, see 12Jxx, 13Jxx, 16W80; for dual spaces of operator algebras and topological groups, see 47D35.}

22A05 Structure of general topological groups

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Novák, Josef Convergences $\mathfrak{L}_S^H$ for the group of real numbers. **94f:22002**
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Dolecki, Szymon (*with* Peirone, Roberto) Topological semigroups of every countable sequential order. (English summary) **94c:54073**
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Gamarnik, D. Minimality of the group Autohomeom(C). (English summary) **94a:54095**
Gartside, P. M. (*with* Moody, P. J.) A note on proto-metrisable spaces. (English summary) **94k:54053**
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22A10 Analysis on general topological groups

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Items with secondary classifications in 22A10

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22A15 Structure of topological semigroups

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Chae, Younki (*with* Lim, Youngdo) Local properties of topological periodic semigroups. (English summary) **94e:22005**
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22A20 Analysis on topological semigroups

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22A22 Topological groupoids (including differentiable and Lie groupoids)

Aof, Mohamed El-Saeed Abbdel-Fattah (*with* Brown, Ronald) The holonomy groupoid of a locally topological groupoid. (English summary) **94e:22008**
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22A25 Representations of general topological groups and semigroups

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22A30 Other topological algebraic systems and their representations

Anderson, Mitch Product integrals in strongly differentiable power associative groupoids. **94c:22003**
Beggs, E. J. (*with* Hatir, E.) Theta topological groups. (English summary) **94d:22002**
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Dikranjan, Dikran Dimension and connectedness in pseudo-compact groups. (English and French summaries) **94c:22004**
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22Bxx Locally compact abelian groups (LCA groups)

22B05 General properties and structure of LCA groups

Comfort, W. W. (*with* Trigos-Arrieta, F. Javier; Wu, Ta Sun) The Bohr compactification, modulo a metrizable subgroup. (English summary) **94i:22013**
Kleppner, Adam Multipliers on subsemigroups of locally compact abelian groups. **94g:22005**
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22B10 Structure of group algebras of LCA groups

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Akbarov, S. S. The structure of differential operators on a locally compact abelian group. (Russian. Russian summary) **94a:22004**
Cakalli, Hüseyin A note on summability of series in topological groups. (English summary) **94b:40007**
Finet, Catherine (*with* Tardivel-Nachef, Valérie) Lacunary sets on transformation groups. **94m:43006**
Moraga, Claudio *see* **Stanković, Radomir S., 94b:22002**
Mutter, Wolfgang Near-rings of continuous functions on compact abelian groups. (English summary) **94i:22015**
Stanković, Radomir S. (*with* Moraga, Claudio) Real Gibbs derivatives on finite abelian groups. (English summary) **94b:22002**
Tardivel-Nachef, Valérie *see* **Finet, Catherine, 94m:43006**

22C05 Compact groups

Comfort, W. W. (*with* Remus, Dieter) Imposing pseudocompact group topologies on abelian groups. (English summary) **94g:22006**
Handelman, David Representation rings as invariants for compact groups and limit ratio theorems for them. **94c:22005**
Mutter, Wolfgang Near-rings of continuous functions on compact abelian groups. (English summary) **94i:22015**
Remus, Dieter *see* **Comfort, W. W., 94g:22006**
Rudin, Walter Autohomeomorphisms of compact groups. (English summary) **94j:22004**
Zahir, Hamid Représentation-$*$ régulière des groupes de Lie compacts. (English and French summaries) [Regular $*$-representation of compact Lie groups] **94i:22016**
Ziegler, François Subsets of $\mathbf{R}^n$ which become dense in any compact group. (English summary) **94e:22009**

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Alcalde, C. (*with* Cadavid, A. C.) Quantization, characters and the star-exponential. **94e:58048**
Bui Minh Phong On additive functions with values in a compact abelian group. **94e:11002**
Cadavid, A. C. *see* **Alcalde, C., 94e:58048**
Comfort, W. W. (*with* Trigos-Arrieta, F. Javier; Wu, Ta Sun) The Bohr compactification, modulo a metrizable subgroup. (English summary) **94i:22013**
Destrempes, François (*with* Pianzola, A.) On a counting formula of Djoković for elements of finite order in compact Lie groups. (English summary) **94i:22030**
Dikranjan, Dikran (*with* Rodinò, N.) Isomorphisms between finite powers of connected, totally minimal, pseudocompact, abelian groups. (English summary) **94a:54092**
Dooley, Anthony H. (*with* Wildberger, Norman) Harmonic analysis and global exponential mapping for compact Lie groups. (Russian) **94e:22032**
Hofmann, Karl Heinrich (*with* Morris, Sidney A.) Generators on the arc component of compact connected groups. **94c:22001**
Liu, Fang Bin (*with* Wang, Gang[1]) A property of Jacobi's polynomials. (Chinese. English and Chinese summaries) **94e:33013**
Molin, Paul Application of the star-product method to the angular momentum quantization. (English summary) **94e:81155**
Morris, Sidney A. *see* **Hofmann, Karl Heinrich, 94c:22001**
Mutter, Wolfgang Near-rings of homotopy classes of continuous functions. (English summary) **94m:16050**
Pianzola, A. *see* **Destrempes, François, 94i:22030**
Rodinò, N. *see* **Dikranjan, Dikran, 94a:54092**
Roman'kov, V. A. Generating elements of groups of automorphisms of free metabelian pro-p-groups. (Russian. Russian summary) **94a:22010**
Serre, Jean-Pierre Gèbres. [Gebras] **94h:16074**
Takahashi, Yuji Functions with a unique mean value and amenability. (English summary) **94i:43002**
Trigos-Arrieta, F. Javier *see* **Comfort, W. W.; et al., 94i:22013**
Wang, Gang[1] *see* **Liu, Fang Bin, 94e:33013**
Wildberger, Norman *see* **Dooley, Anthony H., 94e:?2032**
Wu, Ta Sun *see* **Comfort, W. W.; et al., 94i:22013**
Xiao, Chang Bai Fourier coefficients of functions with small supports on 0-dimensional compact abelian groups. (English summary) **94m:43015**
Zel'manov, E. I. On periodic compact groups. (English summary) **94e:20055**

22Dxx Locally compact groups and their algebras

Gordon, E. I. Nonstandard analysis and locally compact abelian groups. **94f:22004**

22D05 General properties and structure of locally compact groups

Bagley, R. W. (*with* Wu, Ta Sun; Yang, Jeong Sheng) On the structure of locally compact topological groups. (English summary) **94g:22007**
Baker, John Walter (*with* Lau, Anthony To Ming) Compact left ideal groups in semigroup compactification of locally compact groups. **94f:22005**
Cleary, Joan (*with* Morris, Sidney A.) Generators for locally compact groups. (English summary) **94j:22005**
Hansel, Georges (*with* Troallic, Jean-Pierre) Moore groups have the WS-property. **94j:22006**
Hitta, Amara On the continuous (co)homology of locally profinite groups and the Künneth theorem. **94m:22004**
Hofmann, Karl Heinrich (*with* Morris, Sidney A.) Finitely generated connected locally compact groups. **94c:22006**
— (*with* Terp, Christian) Compact subgroups of Lie groups and locally compact groups. **94d:22003**
Lau, Anthony To Ming *see* **Baker, John Walter, 94f:22005**
Lyudkovskii, S. V. Classification of some types of locally compact groups in terms of their unitary representations. (Russian) **94a:22005**
Morris, Sidney A. *see* **Hofmann, Karl Heinrich, 94c:22006** *and* **Cleary, Joan, 94j:22005**
Schindler, Werner Iwasawa's theorem and integrals on Lie groups. (English summary) **94i:22017**
Terp, Christian *see* **Hofmann, Karl Heinrich, 94d:22003**
Troallic, Jean-Pierre *see* **Hansel, Georges, 94j:22006**
Wu, Ta Sun Regularly related lattices in locally compact groups. (English summary) **94g:22008**
— *see also* **Bagley, R. W.; et al., 94g:22007**
Yang, Jeong Sheng *see* **Bagley, R. W.; et al., 94g:22007**

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Comfort, W. W. (*with* Trigos-Arrieta, F. Javier; Wu, Ta Sun) The Bohr compactification, modulo a metrizable subgroup. (English summary) **94i:22013**
Johnson, Barry Edward Weakly compact homomorphisms from group algebras. **94a:43004**
Stromberg, Karl R. Universally nonmeasurable subgroups of **R**. **94d:28001**
Trigos-Arrieta, F. Javier *see* **Comfort, W. W.; et al., 94i:22013**
Wu, Ta Sun *see* **Comfort, W. W.; et al., 94i:22013**

22D10 Unitary representations of locally compact groups

Bekka, Mohammed E. B. (*with* Valette, Alain) On duals of Lie groups made discrete. **94k:22003**
— (*with* Valette, Alain) Kazhdan's property (T) and amenable representations. **94a:22006**
Kuhn, M. Gabriella (*with* Steger, Tim) Boundary representations of the free group. I, II. **94i:22018**
— (*with* Steger, Tim) Restrictions of the special representation of Aut(tree_3) to two cocompact subgroups. (English summary) **94b:22001**
Ludwig, Jean Les représentations de carré intégrable. [Square-integrable representations] **94k:22004**
— La décomposition atomique de $L^p(\mathbf{R}^n)$. [Atomic decomposition of $L^p(\mathbf{R}^n)$] (*see* **94j:00009**)
Milnes, Paul Representations of compact right topological groups. (English summary) **94i:22019**
Shimura, Hiroyuki A remark on mutually disjoint irreducible decompositions of the regular representation of a group. **94i:22020**
Steger, Tim *see* **Kuhn, M. Gabriella, 94b:22001** *and* **94i:22018**
Valette, Alain *see* **Bekka, Mohammed E. B., 94a:22006** *and* **94k:22003**

Items with secondary classifications in 22D10

Kerov, S. V. (*with* Ol'shanskii, G. I.; Vershik, A. M.) Harmonic analysis on the infinite symmetric group. A deformation of the regular representation. (English and French summaries) **94e:20019**
Ol'shanskii, G. I. *see* **Kerov, S. V.; et al., 94e:20019**
Peetre, Jaak Comparison of two kinds of Hankel type operators. (English summary) **94i:47043**
Poguntke, Detlev An example of a generalized completely continuous representation of a locally compact group. (English summary) **94e:22011**
Vershik, A. M. *see* **Kerov, S. V.; et al., 94e:20019**
Wolf, Joseph A. The uncertainty principle for Gel'fand pairs. (English summary) **94k:43006**

22D12 Other representations of locally compact groups

Corwin, Lawrence (*with* Johnston, Carolyn Pfeffer) On factor representations of discrete rational nilpotent groups and the Plancherel formula. (English summary) **94k:22005**
Faiziev, V. A. On a theorem of de la Harpe and Karoubi. (Russian) **94m:22005**
Johnston, Carolyn Pfeffer *see* **Corwin, Lawrence, 94k:22005**

Muminov, K. K. Various topological variants of linear reductivity and their interconnections. (Russian) **94m:22006**
Stetkær, Henrik Complete irreducibility and χ-spherical representations. (English summary) **94k:22006**
Wysoczański, Janusz An analytic family of uniformly bounded representations of a free product of discrete groups. (English summary) **94e:22010**

Items with secondary classifications in 22D12

Doplicher, Sergio Operator algebras, group actions and abstract duals. (English summary) **94k:22009**
Góźdź, Andrzej (*with* Rogatko, Marek) Banach $*$-algebraic bundles and algebraic generator coordinate method. (English summary) **94e:81087**
Rogatko, Marek *see* **Góźdź, Andrzej, 94e:81087**

22D15 Group algebras of locally compact groups

Moraga, Claudio *see* **Stanković, Radomir S., 94b:22002**
Stanković, Radomir S. (*with* Moraga, Claudio) Real Gibbs derivatives on finite abelian groups. (English summary) **94b:22002**

Items with secondary classifications in 22D15

Aiena, Pietro Multipliers and convolution operators with natural spectrum on group algebras. (English summary) **94c:43004**
Haagerup, Uffe (*with* Kraus, Jon) Approximation properties for group C^*-algebras and group von Neumann algebras. (English summary) **94k:22008**
Johnson, Kenneth D. Degenerate principal series on tube type domains. (English summary) **94b:22010**
Kraus, Jon *see* **Haagerup, Uffe, 94k:22008**
Milnes, Paul (*with* Walters, S.) Simple quotients of the group C^*-algebra of a discrete 4-dimensional nilpotent group. (English summary) **94k:46119**
Slin'ko, A. M. The radical of locally compact alternative and Jordan rings. **94j:17032**
Walters, S. *see* **Milnes, Paul, 94k:46119**

22D20 Representations of group algebras

Poguntke, Detlev An example of a generalized completely continuous representation of a locally compact group. (English summary) **94e:22011**

Items with secondary classifications in 22D20

Antoine, Jean-Pierre Coherent states associated to group representations which are square integrable on a homogeneous space. (English summary) (*see* **94e:81005**)

22D25 C^*-algebras and W^*-algebras arising from group representations [see also 46Lxx]

Bédos, Erik On the C^*-algebra generated by the left regular representation of a locally compact group. (English summary) **94d:22004**
Belanger, Alain (*with* Forrest, Brian E.) Geometric properties of some subspaces of VN(G). (English summary) **94k:22007**
Forrest, Brian E. *see* **Belanger, Alain, 94k:22007**
Haagerup, Uffe (*with* Kraus, Jon) Approximation properties for group C^*-algebras and group von Neumann algebras. (English summary) **94k:22008**
de la Harpe, Pierre (*with* Robertson, A. Guyan; Valette, Alain) On the spectrum of the sum of generators of a finitely generated group. II. **94j:22008**
— (*with* Robertson, A. Guyan; Valette, Alain) On the spectrum of the sum of generators for a finitely generated group. (English summary) **94j:22007**
Ismagilov, R. S. Groups and homogeneous domains connected with factors of type II, and representations of the group of diffeomorphisms of a torus that preserve the irrational windings. (Russian. Russian summary) **94g:22009**
Ji, Ronghui Smooth dense subalgebras of reduced group C^*-algebras, Schwartz cohomology of groups, and cyclic cohomology. **94a:22007**
Jolissaint, Paul Property T for discrete groups in terms of their regular representation. **94m:22007**
Kraus, Jon *see* **Haagerup, Uffe, 94k:22008**
Lau, Anthony To Ming (*with* Losert, Viktor) The C^*-algebra generated by operators with compact support on a locally compact group. (English summary) **94d:22005**
Losert, Viktor *see* **Lau, Anthony To Ming, 94d:22005**
Neeb, Karl-Hermann Representations of involutive semigroups. (English summary) **94m:22008**
Pahor, Milan The structure of certain group C^*-algebras. (English summary) **94e:22012**
Promislow, S. David A class of groups producing simple, unique trace C^*-algebras. (English summary) **94i:22021**
Quan, Xiu Chi Haar measures on Hopf C^*-algebras. (English summary) **94c:22007**
— The category of commutative Hopf C^*-algebras. (English summary) **94c:22008**
Rieffel, Marc A. Compact quantum groups associated with toral subgroups. (English summary) **94i:22022**
Robertson, A. Guyan Property (T) for II_1 factors and unitary representations of Kazhdan groups. **94f:22006**
— *see also* **de la Harpe, Pierre; et al., 94j:22007** *and* **94j:22008**
Valette, Alain *see* **de la Harpe, Pierre; et al., 94j:22007** *and* **94j:22008**

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Baaj, Saad (*with* Skandalis, Georges) Unitaires multiplicatifs et dualité pour les produits croisés de C^*-algèbres. (English summary) [Multiplicative unitary operators and duality for crossed products of C^*-algebras] **94e:46127**
Baum, Paul (*with* Higson, Nigel; Plymen, Roger) Equivariant homology for SL(2) of a p-adic field. **94k:22021**
Baumgärtel, Hellmut On the reconstruction problem in superselection theory. (English summary) **94k:81162**
Biane, Philippe Équation de Choquet-Deny sur le dual d'un groupe compact. (English and French summaries) [The Choquet-Deny equation on the dual of a compact group] **94a:46091**
Binder, Michael W. Induced factor representations of discrete groups and their types. (English summary) **94g:22010**
(Connes, Alain) *see* **Enock, Michel, 94e:46001**
Echterhoff, Siegfried On transformation group C^*-algebras with continuous trace. **94g:46072**
Elliott, George A. (*with* Giordano, Thierry) Amenable actions of discrete groups. (English summary) **94i:22023**
Enock, Michel (*with* Schwartz, Jean-Marie) ★ Kac algebras and duality of locally compact groups. (English summary) **94e:46001**
— (*with* Vallin, Jean-Michel) C^*-algèbres de Kac et algèbres de Kac. (English summary) [Kac C^*-algebras and Kac algebras] **94e:46101**
Fox, Jeffrey (*with* Haskell, Peter) K-amenability for SU(n, 1). (English summary) **94i:22033**
Giordano, Thierry *see* **Elliott, George A., 94i:22023**
Haskell, Peter *see* **Fox, Jeffrey, 94i:22033**
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Kaniuth, Eberhard Group C^*-algebras of real rank zero or one. **94a:46074**
Kuhn, M. Gabriella (*with* Steger, Tim) Boundary representations of the free group. I, II. **94i:22018**
Linnell, Peter A. Division rings and group von Neumann algebras. (English summary) **94h:20009**
Nessonov, N. I. Representations of infinite-dimensional matrix groups and associated dynamical systems. **94d:46071**
(Ocneanu, Adrian) *see* **Enock, Michel, 94e:46001**
Park, Efton Index theory and Toeplitz algebras on one-parameter subgroups of Lie groups. (English summary) **94c:46136**
Pinzari, Claudia Semigroups of nonunital endomorphisms of C^*-algebras and compact group duality. (English summary) **94k:46140**
Plymen, Roger *see* **Baum, Paul; et al., 94k:22021**
Poguntke, Detlev An example of a generalized completely continuous representation of a locally compact group. (English summary) **94e:22011**
Quigg, John C. Landstad duality for C^*-coactions. (English summary) **94e:46119**
Schaflitzel, Reinhard Maximal orthogonal measures and weak direct products of uncountably many groups. **94a:46082**
Schwartz, Jean-Marie *see* **Enock, Michel, 94e:46001**
Schweitzer, Larry B. Spectral invariance of dense subalgebras of operator algebras. (English summary) **94i:46097**
Skandalis, Georges *see* **Baaj, Saad, 94e:46127**
Steger, Tim *see* **Kuhn, M. Gabriella, 94i:22018**
Thomas, Erik G. F. Symmetric closed operators commuting with a unitary type I representation of finite multiplicity are selfadjoint. **94d:47019**
Vallin, Jean-Michel *see* **Enock, Michel, 94e:46101**
Yamanouchi, Takehiko Duality for actions and coactions of measured groupoids on von Neumann algebras. **94b:46095**

22D30 Induced representations

Bekes, Robert A. (*with* Hilton, Peter John) Induction and restriction as adjoint functors on representations of locally compact groups. (English summary) **94c:22009**
Binder, Michael W. Induced factor representations of discrete groups and their types. (English summary) **94g:22010**
Hermann, Peter Induced representations of hypergroups. **94d:22006**
Hilton, Peter John *see* **Bekes, Robert A., 94c:22009**
Pavel, Liliana Generalized induced representations on quasi-Hilbert spaces. (English summary) **94a:22008**
Quan, Xiu Chi Cyclic vectors for Hilbert algebras. (English summary) **94g:22011**

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Chen, Zhong Hu Correction to: "On sufficient condition for reducibility of a principal series representation of the group F_4^2" [Natur. Sci. J. Xiangtan Univ. **14** (1992), no. 1, 134–137; MR 93j:22026]. **94j:22026**
Conley, Charles H. Representations of finite length of semidirect product Lie groups. (English summary) **94e:22024**
Herb, Rebecca A. Elliptic representations for Sp($2n$) and SO(n). (English summary) **94i:22040**
Johnson, Kenneth D. Degenerate principal series on tube type domains. (English summary) **94b:22010**

22D35 Duality theorems

Doplicher, Sergio Operator algebras, group actions and abstract duals. (English summary) **94k:22009**
Schmüdgen, Konrad Integrable operator representations of $\mathbf{R}_q^2$ and $\mathrm{SL}_q(2, \mathbf{R})$. **94a:22009**

Items with secondary classifications in 22D35

Choda, Marie Duality for finite bipartite graphs. (English summary) **94a:46083**
(Connes, Alain) *see* **Enock, Michel, 94e:46001**
Enock, Michel (*with* Schwartz, Jean-Marie) ★ Kac algebras and duality of locally compact groups. (English summary) **94e:46001**
— (*with* Vallin, Jean-Michel) C^*-algèbres de Kac et algèbres de Kac. (English summary) [Kac C^*-algebras and Kac algebras] **94e:46101**
Gootman, Elliot C. (*with* Lazar, Aldo J.) Quantum groups and duality. (English summary) **94h:46109**
Lazar, Aldo J. *see* **Gootman, Elliot C., 94h:46109**
(Ocneanu, Adrian) *see* **Enock, Michel, 94e:46001**
Quan, Xiu Chi Haar measures on Hopf C^*-algebras. (English summary) **94c:22007**
Schwartz, Jean-Marie *see* **Enock, Michel, 94e:46001**

Vallin, Jean-Michel *see* **Enock, Michel, 94e:46101**
Yamanouchi, Takehiko Bicrossproduct Kac algebras, bicrossproduct groups and von Neumann algebras of Takesaki's type. **94f:46097**
— Crossed products by groupoid actions and their smooth flows of weights. **94c:46124**
— Dual weights on crossed products by groupoid actions. **94c:46125**
— Duality for actions and coactions of measured groupoids on von Neumann algebras. **94b:46095**
— The intrinsic group of Majid's bicrossproduct Kac algebra. (English summary) **94f:46098**

22D40 Ergodic theory on groups [see also 28Dxx, 43A60]

Elliott, George A. (*with* Giordano, Thierry) Amenable actions of discrete groups. (English summary) **94i:22023**
Giordano, Thierry *see* **Elliott, George A., 94i:22023**
Kechris, Alexander S. Countable sections for locally compact group actions. (English summary) **94b:22003**
— Countable sections for locally compact group actions. II. **94b:22004**
Lubotzky, Alexander (*with* Mozes, Shahar) Asymptotic properties of unitary representations of tree automorphisms. (English summary) **94g:22012**
Mozes, Shahar *see* **Lubotzky, Alexander, 94g:22012**
Tempelman, Arkady ★ Ergodic theorems for group actions. **94f:22007**
Ward, T. B. An algebraic obstruction to isomorphism of Markov shifts with group alphabets. (English summary) **94g:22013**

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Adams, Scot (*with* Elliott, George A.; Giordano, Thierry) Amenable actions of groups. (English summary) **94k:22010**
Bezuglyi, S. I. T-set for cocycles. (Russian. Russian summary) **94i:28017**
— Outer conjugacy of the fields of groups of automorphisms and the Connes-Krieger theorem for the actions of groupoids and induced actions. **94f:28023**
Dworkin, Steven Spectral theory and x-ray diffraction. (English summary) **94g:82049**
Elliott, George A. *see* **Adams, Scot; et al., 94k:22010**
Giordano, Thierry *see* **Adams, Scot; et al., 94k:22010**
Guivarc'h, Yves Propriétés de mélange pour les groupes à un paramètre de $\mathrm{Sl}(d, \mathbf{R})$. (French summary) [Mixing properties for one-parameter groups of $\mathrm{Sl}(d, \mathbf{R})$] **94b:28006**
Kwiatkowski, Jan Factors of ergodic group extensions of rotations. (English summary) **94a:28033**
Park, Kyewon K. (*with* Robinson, E. Arthur, Jr.) The joinings within a class of $\mathbf{Z}^2$ actions. **94f:28024**
Robinson, E. Arthur, Jr. *see* **Park, Kyewon K., 94f:28024**
Wu, Ta Sun Regularly related lattices in locally compact groups. (English summary) **94g:22008**
Young, Lai Sang Some open sets of nonuniformly hyperbolic cocycles. (English summary) **94k:58106**

22D45 Automorphism groups of locally compact groups

Roman'kov, V. A. Generating elements of groups of automorphisms of free metabelian pro-p-groups. (Russian. Russian summary) **94a:22010**

22D99 None of the above, but in this section

Adams, Scot (*with* Elliott, George A.; Giordano, Thierry) Amenable actions of groups. (English summary) **94k:22010**
Elliott, George A. *see* **Adams, Scot; et al., 94k:22010**
Giordano, Thierry *see* **Adams, Scot; et al., 94k:22010**

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Dorofaeff, Brian The Fourier algebra of $\mathrm{SL}(2, \mathbf{R}) \ltimes \mathbf{R}^n$, $n \geq 2$, has no multiplier bounded approximate unit. **94k:43005**
Furuta, Koji Banach spaces generated by the coefficients of the conjugation representation. **94d:43002**
Kitada, Toshiyuki Multipliers for weighted Hardy spaces on locally compact Vilenkin groups. (English summary) **94i:43003**
Lyudkovskiĭ, S. V. Topological groups and their κ-metrics. (Russian) **94i:22004**
— Free locally convex spaces generated by locally compact groups. (Russian) **94k:46020**
Neeb, Karl-Hermann Representations of involutive semigroups. (English summary) **94m:22008**
Shtern, A. I. Almost convergence and its applications to the Fourier-Stieltjes localization. (English summary) **94m:43009**
Valette, Alain Weak amenability of right-angled Coxeter groups. **94a:46103**
Wijsman, Robert A. ★ Invariant measures on groups and their use in statistics. **94m:62006**

22Exx Lie groups {For the topology of Lie groups and homogeneous spaces, see 57Sxx, 57Txx; for analysis thereon, see 43A80, 43A85, 43A90.}

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Representation theory of groups and analysis on homogeneous spaces ★ Gun no hyōgen ron oyobi tōshitsu kūkan ue no kaiseki. [Representation theory of groups and analysis on homogeneous spaces] **94h:22001**
Symposium:
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22E05 Local Lie groups [see also 34-XX, 35-XX, 58H05]

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Dooley, Anthony H. (*with* Wildberger, Norman) Harmonic analysis and global exponential mapping for compact Lie groups. (Russian) **94e:22032**
Dörr, Norbert (*with* Neeb, Karl-Hermann) On wedges in Lie triple systems and ordered symmetric spaces. (English summary) **94m:17004**
Farris, Frank *see* **Russell, Thomas, 94f:90010**
Neeb, Karl-Hermann *see* **Dörr, Norbert, 94m:17004**
Russell, Thomas (*with* Farris, Frank) The geometric structure of some systems of demand equations. (English summary) **94f:90010**
Wildberger, Norman *see* **Dooley, Anthony H., 94e:22032**

22E10 General properties and structure of complex Lie groups [see also 32M05]

Berceanu, Stefan (*with* Boutet de Monvel, Louis) Equations of motion on noncompact Hermitian symmetric spaces. (English and French summaries) **94a:22011**
Boutet de Monvel, Louis *see* **Berceanu, Stefan, 94a:22011**
Brylinski, Ranee Kathryn (*with* Kostant, Bertram) The variety of all invariant symplectic structures on a homogeneous space and normalizers of isotropy subgroups. **94f:22008**
Cohen, Arjeh M. (*with* Griess, Robert L., Jr.) Nonlocal Lie primitive subgroups of Lie groups. (English summary) **94a:22012**
Grecu, E. On the involutory automorphisms of complex and quaternionic semi-unitary groups. (Romanian. French and Romanian summaries) **94f:22009**
Griess, Robert L., Jr. *see* **Cohen, Arjeh M., 94a:22012**
Kostant, Bertram *see* **Brylinski, Ranee Kathryn, 94f:22008**
Mare, Liviu The image of exponential map on a few classes of Lie groups. **94a:22013**

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Barannik, L. F. *see* **Fushchich, V. I.; et al., 94k:58157**
Cohen, Arjeh M. (*with* Griess, Robert L., Jr.; Lisser, Bert) The group $L(2, 61)$ embeds in the Lie group of type E_8. (English summary) **94m:20041**
(Ding, Shi Sun) *see* **Li, Jing Hui, 94f:11048**
Ellers, Erich W. (*with* Malzan, Jerry) The length problem for the special unitary group generated by positive transvections. (English and Arabic summaries) **94g:20065**
Ferreira, Cecília Embedding flag manifolds of a Hermitian space E into the unitary group $\mathrm{U}(E)$. (Italian summary) **94i:58041**
Fushchich, V. I. (*with* Barannik, L. F.; Lagno, V. I.) Invariants of one-parameter subgroups of the conformal group $C(1, n)$. (Russian and Ukrainian summaries) **94k:58157**
Griess, Robert L., Jr. *see* **Cohen, Arjeh M.; et al., 94m:20041**
Lagno, V. I. *see* **Fushchich, V. I.; et al., 94k:58157**
Lan, Yi Zhong *see* **Li, Jing Hui, 94f:11048**
Li, Jing Hui (*with* Lan, Yi Zhong) ★ Erjie juzhen qun de biaoshi yu zishou xingshi. (Chinese. Chinese summary) [Representations and automorphic forms of second-order matrix groups] **94f:11048**
Lisser, Bert *see* **Cohen, Arjeh M.; et al., 94m:20041**
Malzan, Jerry *see* **Ellers, Erich W., 94g:20065**

22E15 General properties and structure of real Lie groups

Borisov, Adriyan V. On the subgroups of the similarity group in the Galilean plane.
Destrempes, François (*with* Pianzola, A.) Elements of compact connected simple Lie groups with prime power order and given field of characters. (English summary) **94e:22013**
Doran, Chris (*with* Hestenes, David; Sommen, F.; Van Acker, N.) Lie groups as spin groups. (English summary) **94j:22009**
Hestenes, David *see* **Doran, Chris; et al., 94j:22009**
Hofmann, Karl Heinrich (*with* Ruppert, W. A. F.) The structure of Lie groups which support closed divisible subsemigroups. **94a:22014**
Macías, Enrique Nonclosed Lie subgroups of Lie groups. (English summary) **94a:22015**
Maekawa, Takayoshi Explicit form for differential operators of $\mathrm{U}(n)$ and representation matrix elements. (English summary) **94e:22014**
Mikhailichenko, G. G. Bimetric physical structures of rank $(n + 1, 2)$. (Russian. English and Russian summaries) **94k:22011**
Mittenhuber, Dirk A globality theorem for Lie-wedges that are bounded by a hyperplane-ideal. (English summary) **94a:22016**
— New sufficient criteria for the globality of Lie wedges. (English summary) **94i:22024**
— (*with* Neeb, Karl-Hermann) Remarks on our paper: "On the exponential function of an invariant Lie semigroup" [Sem. Sophus Lie 2 (1992), no. 1, 21–30; MR 93j:22007].
Neeb, Karl-Hermann Weyl groups of disconnected Lie groups. **94f:22010**
— On closedness and simple connectedness of adjoint and coadjoint orbits. **94k:22012**
— *see also* **Mittenhuber, Dirk**
Neretin, Yu. A. Universal completions of complex classical groups. (Russian. Russian summary) **94a:22017**
Park, Joon-Sik Stability of closed subgroups $H(k, t)$ in $\mathrm{SU}(3)$. **94e:22015**
Pianzola, A. *see* **Destrempes, François, 94e:22013**
Ruppert, W. A. F. *see* **Hofmann, Karl Heinrich, 94a:22014**
Shapukov, B. N. ★ Задачи по группам Ли. (Russian. Russian summary) [Problems on Lie groups] **94g:22014**
Sommen, F. *see* **Doran, Chris; et al., 94j:22009**
Tirao, Juan A. On the left ideal in the universal enveloping algebra of a Lie group generated by a complex Lie subalgebra. (English summary) **94j:22010**
Van Acker, N. *see* **Doran, Chris; et al., 94j:22009**

Items with secondary classifications in 22E15

Benenti, Sergio (*with* Tulczyjew, W. M.) Cocycles of the coadjoint representation of a Lie group interpreted as differential forms. (Italian summary) **94a:22040**
Dani, S. G. (*with* McCrudden, M.) Embeddability of infinitely divisible distributions on linear Lie groups. **94d:60010**

Eggert, Anselm Extending the Campbell-Hausdorff multiplications. (English summary) **94c:22017**
Fisher, Robert J., Jr. (*with* Laquer, H. Turner) The extension problem for Lie group homomorphisms. (English summary) **94k:53040**
Hashimoto, Takashi Kirillov-Kostant theory and Feynman path integrals on coadjoint orbits of a certain real semisimple Lie group. **94j:58031**
Helminck, A. G. (*with* Wang, Shu Ping) On rationality properties of involutions of reductive groups. **94d:20051**
Herz, Carl Representations of Lie groups by contact transformations. II. Noncompact simple groups. (English and French summaries) **94e:22027**
Hofmann, Karl Heinrich (*with* Terp, Christian) Compact subgroups of Lie groups and locally compact groups. **94d:22003**
Laquer, H. Turner *see* **Fisher, Robert J., Jr., 94k:53040**
Lipsman, Ronald L. Representations of exponential solvable Lie groups induced from maximal subgroups. **94k:22013**
Magyar, Z. When is a reductive group *-invariant? (English summary) **94e:22028**
Manchon, Dominique Weyl symbolic calculus on any Lie group. (English summary) **94d:22008**
McCrudden, M. *see* **Dani, S. G., 94d:60010**
Neeb, Karl-Hermann Invariant subsemigroups of Lie groups. **94a:22001**
Ólafsson, G. Symmetric spaces of Hermitian type. (English summary) **94g:22034**
Pripoae, Gabriel Une propriété des groupes de Lie de la classe σ. [A property of Lie groups of class σ] **94a:53084**
Singh, Hukum Conjugate loci in a Lie group. (English summary) **94c:53055**
Terp, Christian *see* **Hofmann, Karl Heinrich, 94d:22003**
Tulczyjew, W. M. *see* **Benenti, Sergio, 94a:22040**
Wang, Shu Ping *see* **Helminck, A. G., 94d:20051**
Winkelmann, Jörg Invariant hyperbolic Stein domains. **94e:32052**

22E20 General properties and structure of other Lie groups

Items with secondary classifications in 22E20

Grecu, E. On the involutory automorphisms of complex and quaternionic semi-unitary groups. (Romanian. French and Romanian summaries) **94f:22009**
Husty, Manfred L. (*with* Nagy, Péter T.) Parallelismus auf Liegruppen. [Parallelism on Lie groups] **94g:51008**
Nagy, Péter T. *see* **Husty, Manfred L., 94g:51008**

22E25 Nilpotent and solvable Lie groups

Abouelaz, Ahmed (*with* Daher, Radouan) Sur la transformation de Radon de la sphère S^d. (English and French summaries) [On the Radon transform of the sphere S^d] **94g:22015**
Alexopoulos, G. (*with* Lohoué, Noël) Sobolev inequalities and harmonic functions of polynomial growth. (English and French summaries) **94j:22011**
Benson, Chal (*with* Dooley, Anthony H.; Ratcliff, Gail) Fundamental solutions for powers of the Heisenberg sub-Laplacian. **94d:22007**
Boyom, Michel Nguiffo B. Effacement des classes de cohomologie semi-simples des groupes de Lie nilpotents: deux applications géométriques et topologiques. (English summary) [Vanishing of semisimple cohomology classes of nilpotent Lie groups: two geometric and topological applications] **94b:22005**
Cui, Shang Bin (*with* Luo, Xue Bo) Relative fundamental solutions to homogeneous left invariant partial differential operators on the Heisenberg group. (Chinese. Chinese summary) **94i:22025**
Daher, Radouan *see* **Abouelaz, Ahmed, 94g:22015**
Dooley, Anthony H. *see* **Benson, Chal; et al., 94d:22007**
Feinsilver, Philip (*with* Kocik, J.; Schott, René) Representations and stochastic processes on groups of type-H. (English summary) **94g:22016**
Guo, Ding Hui An eigenvalue problem for a class of left invariant operators on the Heisenberg group. (Chinese. English and Chinese summaries) **94i:22026**
Kocik, J. *see* **Feinsilver, Philip; et al., 94g:22016**
Lévy-Bruhl, Pierre *see* **Mohamed, Abdérémane; et al., 94k:22014**
Lipsman, Ronald L. The Penney-Fujiwara Plancherel formula for homogeneous spaces. **94a:22018**
— Representations of exponential solvable Lie groups induced from maximal subgroups. **94k:22013**
Lohoué, Noël *see* **Alexopoulos, G., 94j:22011**
Luo, Xue Bo *see* **Cui, Shang Bin, 94i:22025**
Mohamed, Abdérémane (*with* Lévy-Bruhl, Pierre; Nourrigat, J.) Étude spectrale d'opérateurs liés à des représentations de groupes nilpotents. (French summary) [Spectral study of operators associated with representations of nilpotent groups] **94k:22014**
Molitor-Braun, Carine Les groupes exponentiels. [Exponential groups] **94k:22015a**
— Les groupes exponentiels. II. [Exponential groups. II] **94k:22015b**
Moszner, Zenon Sur l'équation du comitant. [On the comitant equation] **94j:22012**
Nourrigat, J. *see* **Mohamed, Abdérémane; et al., 94k:22014**
Ôkaji, Takashi Equations of evolution on the Heisenberg group. II. **94k:22016**
Ratcliff, Gail *see* **Benson, Chal; et al., 94d:22007**
Schott, René *see* **Feinsilver, Philip; et al., 94g:22016**

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Agranovskiĭ, M. L. (*with* Berenstein, Carlos A.; Chang, Der-Chen) Morera theorem for holomorphic H^p spaces in the Heisenberg group. **94m:43016**
Banu, O. Structures sur des groupes Lie G_3 résolubles. (Romanian summary) [Structures on solvable Lie groups G_3] **94c:53043**
Berenstein, Carlos A. *see* **Agranovskiĭ, M. L.; et al., 94m:43016**
Boyom, Michel Nguiffo B. Structures localement plates isotropes des groupes de Lie. [Isotropic locally flat Lie group structures] **94h:58181**
— Erratum to: "Homotopic-to-zero affine structures of Lie groups" [J. Differential Geom. **31** (1990), no. 3, 859–911; MR 91g:53026]. **94j:53032**
Chang, Der-Chen *see* **Agranovskiĭ, M. L.; et al., 94m:43016**
Christ, Michael Analytic hypoellipticity, representations of nilpotent groups, and a nonlinear eigenvalue problem. **94k:35075**
Corwin, Lawrence (*with* Johnston, Carolyn Pfeffer) On factor representations of discrete rational nilpotent groups and the Plancherel formula. (English summary) **94k:22005**
Geiges, Hansjörg Symplectic manifolds with disconnected boundary of contact type. **94m:53042**
Giulini, Saverio (*with* Mauceri, Giancarlo) Analysis of a distinguished Laplacian on solvable Lie groups. (English summary) **94g:22017**
Gorbatsevich, V. V. Compact homogeneous spaces with a solvable fundamental group. IV. (Russian) **94e:53046**
Hulanicki, Andrzej Maximal functions at infinity for Poisson integrals on NA. **94h:22003**
Jiang, Ya Ping (*with* Luo, Xue Bo) Explicit fundamental solutions for a class of left invariant operators on the nilpotent Lie group $G^{d_1+d_2}$. (English summary) **94f:22014**
Johnston, Carolyn Pfeffer *see* **Corwin, Lawrence, 94k:22005**
Lohoué, Noël Estimées de type Hardy-Sobolev sur certaines variétés riemanniennes et les groupes de Lie. (English and French summaries) [Hardy-Sobolev estimates on some Riemannian manifolds and Lie groups] **94b:58107**
Luo, Xue Bo *see* **Jiang, Ya Ping, 94f:22014**
Mauceri, Giancarlo *see* **Giulini, Saverio, 94g:22017**
Moss, J. D., Jr. A Paley-Wiener theorem for selected nilpotent Lie groups. (English summary) **94e:22017**
Müller, Detlef A homogeneous, globally solvable differential operator on a nilpotent Lie group which has no tempered fundamental solution. (English summary) **94g:22021**
Pesce, Hubert Déformations isospectrales sur certaines nilvariétés et finitude spectrale des variétés de Heisenberg. (French summary) [Isospectral deformations on certain nilmanifolds and spectral finiteness of Heisenberg manifolds] **94c:58214**
— Une formule de Poisson pour les variétés de Heisenberg. (English and French summaries) [A Poisson formula for Heisenberg manifolds] **94c:58215**
Pfeffer, Carolyn Fejér theorems on compact solvmanifolds. **94i:43007**
Quan, Xiu Chi Cyclic vectors for Hilbert algebras. (English summary) **94g:22011**
Strichartz, Robert S. Self-similarity on nilpotent Lie groups. (English summary) **94e:43011**

22E27 Representations of nilpotent and solvable Lie groups (special orbital integrals, non-type I representations, etc.)

Currey, Bradley N. A continuous trace composition sequence for $C^*(G)$ where G is an exponential solvable Lie group. (English summary) **94i:22027**
Fujiwara, Hidenori La formule de Plancherel pour les représentations monomiales des groupes de Lie nilpotents. [The Plancherel formula for monomial representations of nilpotent Lie groups] **94a:22019**
Hilgert, J. (*with* Ólafsson, G.) Analytic extensions of representations, the solvable case. **94f:22011**
Lévy-Bruhl, Pierre (*with* Nourrigat, J.) "Wave packets" sur les groupes nilpotents. [Wave packets on nilpotent groups] **94i:22028**
Ludwig, Jean (*with* Zahir, Hamid) On the nilpotent $*$-Fourier transform. (English summary) **94k:22017**
Magneron, Bernard Représentations induites holomorphes des groupes de Lie nilpotents et involutions complexes. (English and French summaries) [Holomorphically induced representations of nilpotent Lie groups and complex involutions] **94e:22016**
Moss, J. D., Jr. A Paley-Wiener theorem for selected nilpotent Lie groups. (English summary) **94e:22017**
Nourrigat, J. *see* **Lévy-Bruhl, Pierre, 94i:22028**
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Zahir, Hamid *see* **Ludwig, Jean, 94k:22017**

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Furutani, Kenrô (*with* Sagami, Kei; Ôtsuki, Nobukazu) The spectrum of the Laplacian on a certain nilpotent Lie group. **94d:58148**
Luo, Xue Bo Necessary and sufficient conditions for hypoellipticity for a class of convolution operators. (English summary) **94m:35070**
Maire, H.-M. Hypoelliptic systems of complex vector fields. **94d:35031**
Moszner, Zenon Sur l'équation du comitant. [On the comitant equation] **94j:22012**
Ôtsuki, Nobukazu *see* **Furutani, Kenrô; et al., 94d:58148**
Pedersen, Niels Vigand Orbits and primitive ideals of solvable Lie algebras. **94m:17009**
Pukanszky, L. On the coadjoint orbits of connected Lie groups. **94g:22037**
Sagami, Kei *see* **Furutani, Kenrô; et al., 94d:58148**
Thangavelu, Sundaram On Paley-Wiener theorems for the Heisenberg group. (English summary) **94m:43017**
Wiesbrock, Hans-Werner Conformal quantum field theory and half-sided modular inclusions of von Neumann algebras. (English summary) **94m:81064**

22E30 Analysis on real and complex Lie groups [see also 33C80, 43–XX]

Alexopoulos, G. An application of homogenization theory to harmonic analysis on solvable Lie groups of polynomial growth. (English summary) **94k:22018**
Benson, Chal (*with* Jenkins, Joe; Ratcliff, Gail) $O(n)$-spherical functions on Heisenberg groups. (English summary) **94h:22002**
Damek, Ewa Maximal functions related to subelliptic operators invariant under an action of a nilpotent Lie group. (English summary) **94b:22006**
Ding, Hongming Hilbert spaces of vector-valued holomorphic functions and irreducibility of multiplier representations. **94c:22010**
ter Elst, A. F. M. Gevrey spaces and their intersections. (English summary) **94e:22018**
Fabec, R. C. Distributions on groups of type H. (English summary) **94i:22029**
Felix, Rainer Radon-Transformation auf nilpotenten Lie-Gruppen. [Radon transform on nilpotent Lie groups] **94f:22012**
Friedberg, Solomon (*with* Goldfeld, Dorian) Mellin transforms of Whittaker functions. (English and French summaries) **94f:22013**

Giulini, Saverio (*with* Mauceri, Giancarlo) Analysis of a distinguished Laplacian on solvable Lie groups. (English summary) **94g:22017**
Goldfeld, Dorian *see* **Friedberg, Solomon**, **94f:22013**
Guzairov, G. M. Some integral transformations associated with Fourier transformations on the group SL(2, **R**). (Russian) **94e:22019**
Haase, R. W. (*with* Johnson, N. F.) Schur function analysis of the unitary discrete series representations of the noncompact symplectic group. (English summary) **94g:22018**
Helgason, Sigurdur Some results on invariant differential operators on symmetric spaces. **94a:22020**
Hulanicki, Andrzej Maximal functions at infinity for Poisson integrals on NA. **94h:22003**
Jenkins, Joe *see* **Benson, Chal; et al.**, **94h:22002**
Jiang, Ya Ping (*with* Luo, Xue Bo) Explicit fundamental solutions for a class of left invariant operators on the nilpotent Lie group $G^{d_1+d_2}$. (English summary) **94f:22014**
Johnson, N. F. *see* **Haase, R. W.**, **94g:22018**
Kawazoe, Takeshi A method of reduction in harmonic analysis on real rank 1 semisimple Lie groups. I. **94k:22019**
— A characterization of the Poisson kernel on the classical real rank one symmetric spaces. **94g:22019**
Khalgui, Mohamed Salah (*with* Torasso, Pierre) Formule de Poisson-Plancherel pour un groupe presque algébrique réel. I. Transformée de Fourier d'intégrales orbitales. (English and French summaries) [The Poisson-Plancherel formula for a real almost algebraic group. I. Fourier transform of orbital integrals] **94g:22020**
Kunze, Ray A. Some special functions in the Fock space. **94c:22011**
Luo, Xue Bo *see* **Jiang, Ya Ping**, **94f:22014**
Manchon, Dominique Weyl symbolic calculus on any Lie group. (English summary) **94d:22008**
Mauceri, Giancarlo *see* **Giulini, Saverio**, **94g:22017**
Molchanov, V. F. Harmonic analysis on semisimple symmetric spaces of rank one. **94h:22004**
Morales, Pedro The Perron product integral in Lie groups. **94d:22009**
Müller, Detlef A homogeneous, globally solvable differential operator on a nilpotent Lie group which has no tempered fundamental solution. (English summary) **94g:22021**
Ratcliff, Gail *see* **Benson, Chal; et al.**, **94h:22002**
Skrzypczak, Leszek Besov spaces and function series on Lie groups. (English summary) **94k:22020**
Strasburger, Aleksander Covariant functions and distributions and reduction of invariant systems of differential operators on Euclidean spaces. **94a:22021**
Sun, Li Min An uncertainty principle on the group of rigid motions of the plane. (English summary) **94d:22010**
Torasso, Pierre *see* **Khalgui, Mohamed Salah**, **94g:22020**
Varopoulos, Nicholas Th. Théorie de Hardy-Littlewood sur les groupes de Lie. (English and French summaries) [Hardy-Littlewood theory on Lie groups] **94g:22022**
Yacoub, Chokri Approximation de fonctions sur un espace symétrique compact par des polynômes sphériques. (English and French summaries) [Approximation of functions on a compact symmetric space by spherical polynomials] **94f:22015**

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Akhiezer, D. N. Invariant plurisubharmonic functions and geodesic convexity. (English summary) **94k:32055**
van den Ban, E. P. (*with* Schlichtkrull, Henrik) Multiplicities in the Plancherel decomposition for a semisimple symmetric space. **94e:43012**
— (*with* Schlichtkrull, Henrik) Multiplicities in the Plancherel decomposition for a semisimple symmetric space. **94e:43012**
— (*with* Schlichtkrull, Henrik) Convexity for invariant differential operators on semisimple symmetric spaces. **94m:43018**
Beerends, R. J. Some special values for the BC type hypergeometric function. **94c:33027**
Benson, Chal (*with* Dooley, Anthony H.; Ratcliff, Gail) Fundamental solutions for powers of the Heisenberg sub-Laplacian. **94d:22007**
Bertram, Wolfgang Généralisation d'une formule de Ramanujan dans le cadre de la transformation de Fourier sphérique associée à la complexification d'un espace symétrique compact. (English and French summaries) [A formula of Ramanujan generalized in the framework of the spherical Fourier transform associated with the complexification of a compact symmetric space] **94d:43008**
Biane, Philippe Minuscule weights and random walks on lattices. **94c:46129**
Byczkowski, Tomasz (*with* Graczyk, Piotr) Malliavin calculus for stable processes on Heisenberg group. (English summary) **94k:60089**
Cazzaniga, Franco (*with* Travaglini, Giancarlo) On pointwise convergence and localization for Fourier series on compact Lie groups. **94f:43007**
Chalykh, O. A. On a construction of commutative rings of differential operators. (Russian) **94c:58082**
Christ, Michael (*with* Geller, Daryl; Głowacki, Paweł; Polin, Larry) Pseudodifferential operators on groups with dilations. **94b:35316**
Coulhon, Thierry Inégalités de Gagliardo-Nirenberg pour les semi-groupes d'opérateurs et applications. (English summary) [Gagliardo-Nirenberg inequalities for operator semigroups, and applications] **94k:47064**
Cui, Shang Bin (*with* Luo, Xue Bo) Relative fundamental solutions to homogeneous left invariant partial differential operators on the Heisenberg group. (Chinese. Chinese summary) **94i:22025**
Davidson, M. G. (*with* Stanke, R. J.) Szegő maps and highest weight representations. (English summary) **94c:22012**
Dooley, Anthony H. *see* **Benson, Chal; et al.**, **94d:22007**
Dziubański, Jacek On semigroups generated by subelliptic operators on homogeneous groups. **94d:43007**
Eguchi, Masaaki (*with* Tanaka, Shohei) The explicit representation of the determinant of Harish-Chandra's C-function in SL(3, **R**) and SL(4, **R**) cases. **94a:22030**
Fujiwara, Hidenori La formule de Plancherel pour les représentations monomiales des groupes de Lie nilpotents. [The Plancherel formula for monomial representations of nilpotent Lie groups] **94a:22019**
Furutani, Kenrô (*with* Sagami, Kei; Ôtsuki, Nobukazu) The spectrum of the Laplacian on a certain nilpotent Lie group. **94d:58148**
Geller, Daryl *see* **Christ, Michael; et al.**, **94b:35316**
Głowacki, Paweł *see* **Christ, Michael; et al.**, **94b:35316**
Graczyk, Piotr *see* **Byczkowski, Tomasz**, **94k:60089**
Graev, M. I. (*with* Retakh, V. S.) Hypergeometric systems of Gel'fand-type equations and series in orthogonal polynomials. (English summary) **94m:33009**
Guivarc'h, Yves (*with* Ji, Lizhen; Taylor, John Christopher) Compactifications of symmetric spaces. (English and French summaries) **94j:53062**
Guo, Ding Hui An eigenvalue problem for a class of left invariant operators on the Heisenberg group. (Chinese. English and Chinese summaries) **94i:22026**
Hebisch, Waldemar Multiplier theorem on generalized Heisenberg groups. **94m:43013**
Hilgert, J. Convexity properties of Grassmannians. **94d:58062**
Ji, Lizhen *see* **Guivarc'h, Yves; et al.**, **94j:53062**
Kantor, I. L. (*with* Patera, J.) A construction of transitively differential groups of degree 3. (English summary) **94k:17050**
Kim, Yonne Mi A restriction theorem on the Folland-Stein spaces. **94c:43001**
Kostant, Bertram (*with* Sahi, Siddhartha) Jordan algebras and Capelli identities. **94b:17054**
Kozlov, Valerii V. (*with* Yaroshchuk, V. A.) On invariant measures of Euler-Poincaré equations on unimodular groups. (Russian. Russian summary) **94g:58073**
Lassalle, Michel Matrice de Hua et polynômes de Jack. [Hua matrices and Jack polynomials] **94d:33006**
Lévy-Bruhl, Pierre *see* **Mohamed, Abdérémane; et al.**, **94k:22014**
Lipsman, Ronald L. The Penney-Fujiwara Plancherel formula for homogeneous spaces. **94a:22018**
Liu, He Ping (*with* Peng, Li Zhong) Weighted Plancherel formula. Irreducible unitary representations and eigenspace representations. **94f:22021**
— Commutators of multipliers on the Heisenberg group. (English summary) **94m:43004**
Lohoué, Noël Estimées de type Hardy-Sobolev sur certaines variétés riemanniennes et les groupes de Lie. (English and French summaries) [Hardy-Sobolev estimates on some Riemannian manifolds and Lie groups] **94b:58107**
Luo, Xue Bo *see* **Cui, Shang Bin**, **94i:22025**
Matsuo, Atsushi Integrable connections related to zonal spherical functions. (English summary) **94g:33013**
Mohamed, Abdérémane (*with* Lévy-Bruhl, Pierre; Nourrigat, J.) Étude spectrale d'opérateurs liés à des représentations de groupes nilpotents. (French summary) [Spectral study of operators associated with representations of nilpotent groups] **94k:22014**
Nazaikinskii, V. E. (*with* Sternin, B. Yu.; Shatalov, V. E.) Maslov operational calculus and noncommutative analysis. (English summary) **94e:58137**
Nourrigat, J. *see* **Mohamed, Abdérémane; et al.**, **94k:22014**
Ôkaji, Takashi Equations of evolution on the Heisenberg group. II. **94k:22016**
Ôtsuki, Nobukazu *see* **Furutani, Kenrô; et al.**, **94d:58148**
Patera, J. *see* **Kantor, I. L.**, **94k:17050**
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Pfeffer, Carolyn Fejér theorems on compact solvmanifolds. **94i:43007**
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Ratcliff, Gail *see* **Benson, Chal; et al.**, **94d:22007**
Retakh, V. S. *see* **Graev, M. I.**, **94m:33009**
Sagami, Kei *see* **Furutani, Kenrô; et al.**, **94d:58148**
Sahi, Siddhartha *see* **Kostant, Bertram**, **94b:17054**
Schlichtkrull, Henrik *see* **van den Ban, E. P.**, **94e:43012**; **94e:43012** *and* **94m:43018**
Schweitzer, Larry B. A factorization theorem for smooth crossed products. **94m:46084**
Shatalov, V. E. *see* **Nazaikinskii, V. E.; et al.**, **94e:58137**
Stanke, R. J. *see* **Davidson, M. G.**, **94c:22012**
Sternin, B. Yu. *see* **Nazaikinskii, V. E.; et al.**, **94e:58137**
Sun, Li Min An uncertainty principle on hyperbolic space. (English summary) **94h:43005**
Tanaka, Shohei *see* **Eguchi, Masaaki**, **94a:22030**
Taylor, John Christopher *see* **Guivarc'h, Yves; et al.**, **94j:53062**
Travaglini, Giancarlo *see* **Cazzaniga, Franco**, **94f:43007**
Varopoulos, Nicholas Th. Estimations du noyau de la chaleur sur les groupes de Lie. (English and French summaries) [Estimates of the heat-diffusion kernel on Lie groups] **94a:58189**
Wallace, Dorothy I. A local sampling scheme for invariant evolution equations on a compact symmetric space, especially the sphere. (*see* **94e:93007**)
Xu, Zeng Fu The generalized Abel means of H^p functions ($0 < p \leq 1$) on compact Lie groups. (English summary) **94i:43005**
Yang, En Hao General solution formulas of three-dimensional linear autonomous systems of ordinary differential equations. (English summary) **94g:34005**
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22E40 Discrete subgroups of Lie groups [see also 20Hxx, 32Nxx]

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Grenier, Douglas On the shape of fundamental domains in $GL(n, \mathbf{R})/O(n)$. (English summary) **94g:22024**
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22E41 Continuous cohomology [see also 57R32, 57Txx, 58H10]

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22E43 Structure and representation of the Lorentz group

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22E45 Representations of Lie and linear algebraic groups over real fields: analytic methods {For the purely algebraic theory, see 20G05.}

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22E46 Semisimple Lie groups and their representations

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22E47 Representations of Lie and real algebraic groups: algebraic methods (Verma modules, etc.) [see also 17B35]

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22E55 Representations of Lie and linear algebraic groups over global fields and adèle rings [see also 20G05]

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22E60 Lie algebras of Lie groups {For the algebraic theory of Lie algebras, see 17Bxx.}

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22E65 Infinite-dimensional Lie groups and their Lie algebras [see also 17B65, 58B25, 58H05]

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22E67 Loop groups and related constructions, group-theoretic treatment [see also 58D05]

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Ouzilou, René Algèbres de Clifford-Hilbert et opérateurs de vertex. (French summary) [Clifford-Hilbert algebras and vertex operators] **94f:22026**
Pickrell, Doug Extensions of loop groups. (English summary) **94j:22023**
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Hauschild, Volker Effective actions and Weyl degrees of compact Lie groups. **94k:55017**
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26–01 Instructional exposition (textbooks, tutorial papers, etc.)

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Rautenberg, Wolfgang ★ Elementare Grundlagen der Analysis. (German. German summary) [Elementary foundations of analysis]
Shao, Pin Zong *see* **Shen, Xie Chang, 94d:26001**
Shen, Xie Chang (*with* Shao, Pin Zong) ★ Shuxue fenxi zongheng tan. (Chinese) [Miscellaneous talks on mathematical analysis] **94d:26001**
Sviridyuk, G. A. *see* **Povolotskii, A. I., 94e:26001**
Watson, Neil A. ★ Mathematical analysis explained.

Items with secondary classifications in 26–01

(Begehr, Heinrich) *see* **Schmidt, Erhard, 94d:01097**
Bröcker, Theodor ★ Analysis. I. (German. German summary) **94c:00001a**
— ★ Analysis. II. (German. German summary) **94c:00001b**
— ★ Analysis. III. (German. German summary) **94c:00001c**
(Cheng, Min De) *see* **Huang, Cheng Gui, 94g:00002**
Ferrier, Jean-Pierre ★ Mathématiques pour la licence. (French. French summary) [Mathematics for the Bachelor's Degree] **94m:00002**
Foran, James ★ Fundamentals of real analysis. **94e:00002**
Gelbaum, Bernard R. ★ Problems in real and complex analysis. (English summary) **94d:00003**
Gostiaux, Bernard ★ Cours de mathématiques spéciales. Tome 2. (French. French summary) [Course on special mathematics. Vol. 2] **94h:00002b**
— ★ Cours de mathématiques spéciales. Tome 3. (French. French summary) [Course on special mathematics. Vol. 3] **94h:00002c**
Hladnik, Milan *see* **Lipušček, Sergeja**
Huang, Cheng Gui ★ Liang xiang weijifenxue. (Chinese. Chinese summary) [Two-phase calculus] **94g:00002**
Königsberger, Konrad ★ Analysis. 2. (German. German summary) **94i:00001**
Krantz, Steven G. ★ Real analysis and foundations. **94e:00003**
Lang, Serge ★ Real and functional analysis. (English summary) **94b:00005**
Lipušček, Sergeja (*with* Hladnik, Milan) The generalized Riemann integral. II. (Slovenian. English and Slovenian summaries)
Luh, Wolfgang (*with* Wießner, Martin) ★ Aufgabensammlung Analysis. Band 1. (German. German summary) [Collection of problems in analysis. Vol. 1] **94g:00005a**
— (*with* Wießner, Martin) ★ Aufgabensammlung Analysis. Band 2. (German. German summary) [Collection of problems in analysis. Vol. 2] **94g:00005b**
(Pietsch, Hans) *see* **Schmidt, Erhard, 94d:01097**
Schark, R. ★ Konstanten in der Mathematik—variabel betrachtet. (German) [Constants in mathematics—variously considered] **94f:00001**
Schmidt, Erhard ★ Vorlesungen über Differential- und Integralrechnung. (German) [Lectures on differential and integral calculus] **94d:01097**
Sherstnev, A. N. ★ Конспект лекций по математическому анализу. (Russian. Russian summary) [A summary of lectures on mathematical analysis] **94f:00003**
Simmonds, James G. ★ A brief on tensor analysis. (English summary) **94h:53001**
Storch, Uwe (*with* Wiebe, Hartmut) ★ Lehrbuch der Mathematik für Mathematiker, Informatiker und Physiker. Band III. (German) [Textbook of mathematics for mathematicians, computer scientists and physicists. Vol. III] **94k:00002**
Wiebe, Hartmut *see* **Storch, Uwe, 94k:00002**
Wießner, Martin *see* **Luh, Wolfgang, 94g:00005a** *and* **94g:00005b**
(Zhang, Jin Wen) *see* **Huang, Cheng Gui, 94g:00002**

26–02 Research exposition (monographs, survey articles)

Erdélyi, Tamás Remez-type inequalities and their applications. (English summary) **94m:26003**
Pečarić, Josip E. (*with* Proschan, Frank; Tong, Yung Liang) ★ Convex functions, partial orderings, and statistical applications. **94e:26002**
Proschan, Frank *see* **Pečarić, Josip E.; et al., 94e:26002**
Tong, Yung Liang *see* **Pečarić, Josip E.; et al., 94e:26002**

26–03 Historical (must also be assigned at least one classification number from Section 01)

Shenitzer, A. (*with* Stepräns, Juris) The evolution of integration. **94j:26001**
Stepräns, Juris *see* **Shenitzer, A., 94j:26001**

Items with secondary classifications in 26–03

Cauchy, Augustin-Louis ★ Analyse algébrique. (French) [Algebraic analysis] **94a:01019**
Gowing, Ronald A study of spirals: Cotes and Varignon. **94c:01012**
Laquer, H. Turner The Pompeiu problem. **94c:26015**
Malet, Antoni James Gregorie on tangents and the "Taylor" rule for series expansions. **94k:01013**
Michel, Alain ★ Constitution de la théorie moderne de l'intégration. (French) [Formation of the modern theory of integration] **94d:01039**
(Mitchell, Maceo) *see* **Simmons, George F., 94m:01036**
Neuberger, J. W. Beurling's analyticity theorem. **94d:01040**
Pepe, Luigi The civic engagements of Italian mathematicians during the Triennio Repubblicano (1796–1799). (Italian) **94h:01016**
Simmons, George F. ★ Calculus gems. **94m:01036**

26–04 Explicit machine computation and programs (not the theory of computation or programming)

Verma, Krishnanand Some algorithms of calculus for software of supercomputers. (English summary)

26–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 26–06

(Kalia, R. N.) *see* **Recent advances in fractional calculus, 94f:26006**

Items listed otherwise than by author

Grado ★ School on Measure Theory and Real Analysis. **94e:28001**
Recent advances in fractional calculus ★ Recent advances in fractional calculus. **94f:26006**
School:
Measure Theory and Real Analysis ★ School on Measure Theory and Real Analysis. **94e:28001**

26Axx Functions of one variable

26A03 Foundations: limits and generalizations, elementary topology of the line

Ciesielski, Krzysztof Density and $\mathcal{F}$-density continuous homeomorphisms. **94g:26001**
Jakubík, Ján On systems of sequences of reals. (English summary) **94k:26002**

Kirchheim, Bernd The squeezing theorem is independent. **94h:26002**
Milici, C. (*with* Rachin, N.) Continuité de la droite, fondée sur l'ordre linéaire. (French summary) [Continuity of the line based on the linear order] (*see* **94j:00025**)
Muthuvel, Kandasamy Some results concerning Hamel bases. (English summary) **94c:26001**
Rachin, N. *see* **Milici, C., (94j:00025)**
Wagner-Bojakowska, Elżbieta Some remarks on density topologies on the plane. **94g:26002**
Ylinen, Kari The uncountability of the real line.

Items with secondary classifications in 26A03

Arkhipov, G. I. (*with* Sadovnichiĭ, V. A.[1]; Chubarikov, V. N.) On the equivalence of two types of convergence in the base of sets. (Russian) **94m:54007**
Banaszewski, Krzysztof Algebraic properties of $\mathscr{E}$-continuous functions. **94b:26001**
Chubarikov, V. N. *see* **Arkhipov, G. I.; et al., 94m:54007**
Lin, Ying Zhen A class of topologies—the sequence topologies—on the set **R** of real numbers and some of their properties. (Chinese. English and Chinese summaries)
Pankov, P. S. Proof of finite-dimensional inequalities by means of interval analysis. (English and Russian summaries) **94j:00007**
Sadovnichiĭ, V. A.[1] *see* **Arkhipov, G. I.; et al., 94m:54007**
Xie, Han Sheng Helly's second theorem and its application in the computation of limits. (Chinese. English and Chinese summaries)

26A06 One-variable calculus

Abudukelimu, Aji Asymptotic properties of the mean value points in mean value theorems. (Chinese. English and Chinese summaries) **94m:26004**
Azam, Akbar *see* **Beg, Ismat, 94j:26002**
Barshinger, Richard Calculus II and Euler also (with a nod to series integral remainder bounds). **94k:26003**
Beg, Ismat (*with* Azam, Akbar) Mean value inequalities and some fundamental results of calculus. **94j:26002**
Büttgenbach, Bernhard (*with* Lüttgens, Gerald; Nessel, Rolf Joachim) On some problems concerning best constants for the midpoint and trapezoidal rule. (English summary) **94d:26002**
Chaljub-Simon, Alice (*with* Volkmann, Peter) Zwischenwerte und Fixpunkte für reelle Funktionen. (German summary) [Intermediate values and fixed points for real functions]
Collings, Ian (*with* Klemm, Anthony Desmond) A noticed property of inverses.
Gui, Zu Hua A formula of solution to the integral of rational functions. (Chinese. English and Chinese summaries) **94m:26005**
Guo, Sen Lin An extension of the Newton-Leibniz formula and some applications of it to the integration of rapidly oscillating functions. (Chinese. Chinese summary)
Klemm, Anthony Desmond *see* **Collings, Ian**
Kortram, Ronald A. Another computation of $\int_0^\infty e^{-u^2}\,du$. (German summary)
Laziun, V. *see* **Neamţu, D.; et al., (94j:00024)**
Lüttgens, Gerald *see* **Büttgenbach, Bernhard; et al., 94d:26002**
Mařík, Jan Integration of some very elementary functions. (English summary) **94e:26003**
Neamţu, D. (*with* Neamţu, N. N.; Laziun, V.) About some mean formulas. (Romanian summary) (*see* **94j:00024**)
Neamţu, N. N. *see* **Neamţu, D.; et al., (94j:00024)**
Nessel, Rolf Joachim *see* **Büttgenbach, Bernhard; et al., 94d:26002**
Strang, Gilbert Polar area is the average of strip areas. **94a:26002**
Swartz, Charles Even more on the fundamental theorem of calculus. (English summary) **94k:26004**
Volkmann, Peter *see* **Chaljub-Simon, Alice**
Zhao, Ming Fang An extension of the mean value theorem for differentials. (Chinese. English and Chinese summaries) **94h:26003**
Zheng, Shi Bai A note on the application of a combinatorial triangle with repetition in indefinite integration. (Chinese. Chinese summary)

Items with secondary classifications in 26A06

Gowing, Ronald A study of spirals: Cotes and Varignon. **94c:01012**
Grounds, W. V. (*with* Silberger, D. M.) An elementary calculus view towards Fermat's last theorem. (English summary) **94k:11034**
(Mitchell, Maceo) *see* **Simmons, George F., 94m:01036**
Silberger, D. M. *see* **Grounds, W. V., 94k:11034**
Simmons, George F. ★ Calculus gems. **94m:01036**

26A09 Elementary functions

Bai, Yu Lan (*with* Qiu, Hong Song) Using the limit function of a sequence of functions to define the exponential function $y = a^x$. (Chinese. English and Chinese summaries) **94a:26003**
Gardner, B. J. The natural exponential comes before the natural logarithm. (English summary) **94h:26004**
Liu, Hui Min Determination of several classes of elementary functions by functional inequalities. (Chinese. English and Chinese summaries) **94g:26003**
Qiu, Hong Song *see* **Bai, Yu Lan, 94a:26003**
Xu, Xiao Quan Generalizations and proofs of three results of I. Schur. (Chinese)

Items with secondary classifications in 26A09

Mařík, Jan Integration of some very elementary functions. (English summary) **94e:26003**

26A12 Rate of growth of functions, orders of infinity, slowly varying functions [see also 26A48]

Fenton, P. C. The growth of $\Phi\Phi''/\Phi'^2$ for convex functions. **94d:26003**
Kudryavtsev, L. D. Criterion of polynomial increase of a function and its derivatives. (Russian summary) **94d:26004**
Shackell, John Inverses of Hardy L-functions. (English summary) **94a:26004**
Tadjouri, Mohammed Problème de Carleman et composition des fonctions indéfiniment dérivables. (English and French summaries) [The Carleman problem and composition of infinitely differentiable functions] **94e:26004**

Items with secondary classifications in 26A12

Balkema, A. A. (*with* Klüppelberg, Claudia; Resnick, Sidney I.) Densities with Gaussian tails. (English summary) **94c:60020**
Kirchheim, Bernd The squeezing theorem is independent. **94h:26002**
Klüppelberg, Claudia *see* **Balkema, A. A.; et al., 94c:60020**
Li Calzi, M. Quasiconcave functions over chains. (English summary) **94i:90112**
Miller, Chris Exponentiation is hard to avoid. (English summary) **94k:03042**
Pathak, R. S. Pseudo-asymptotic expansion of generalized functions. **94h:46063**
Resnick, Sidney I. *see* **Balkema, A. A.; et al., 94c:60020**

26A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) {For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25, 41A27.}

Alikulov, È. O. Some differential properties of complex functions. (Russian. Russian summary) **94d:26005**
Ash, J. Marshall (*with* Cohen, Jonathan; Freiling, C.; Gluck, L.; Rieders, Eric; Wang, Guan Min) Characterizations and generalizations of continuity. (English summary) **94i:26001**
Bakunin, G. N. *see* **Bavrin, I. I., 94g:26005**
Balcerzak, Marek Typical properties of continuous functions via the Vietoris topology. **94g:26004**
Banaszewski, Krzysztof Algebraic properties of $\mathscr{E}$-continuous functions. **94b:26001**
Bavrin, I. I. (*with* Bakunin, G. N.) On the strong and weak ballistic property of functions. (Russian) **94g:26005**
Borsík, Ján (*with* Doboš, Jozef) A note on real cliquish functions. **94a:26005**
— (*with* Šalát, Tibor) On F-continuity of real functions. (English summary) **94m:26006**
Bukovská, Zuzana (*with* Bukovský, Lev; Ewert, Janina) Quasi-uniform convergence and $\mathscr{L}$-spaces. **94e:26005**
Bukovský, Lev *see* **Bukovská, Zuzana; et al., 94e:26005**
Cater, F. S. On graphs of continuous functions. **94d:26006**
Chakrabarti, Sadasiv *see* **Lahiri, B. K.**
Cohen, Jonathan *see* **Ash, J. Marshall; et al., 94i:26001**
Darji, Udayan B. A Sierpiński-Zygmund function which has a perfect road at each point. **94j:26003**
Doboš, Jozef *see* **Borsík, Ján, 94a:26005**
Evans, Steven N. (*with* Pitman, J. W.) Does every Borel function have a somewhere continuous modification? **94b:26002**
Ewert, Janina *see* **Bukovská, Zuzana; et al., 94e:26005**
Finta, Zoltán On some properties of Darboux functions. (English summary) **94g:26006**
Freiling, C. *see* **Ash, J. Marshall; et al., 94i:26001**
Gal, Sorin Gh. Calculus of the modulus of continuity for convex functions defined on unbounded intervals and applications. **94e:26006**
Gluck, L. *see* **Ash, J. Marshall; et al., 94i:26001**
Grande, Zbigniew On the Darboux property of restricted functions. **94b:26003**
— On a theorem of Menkyna. (English summary) **94b:26004**
— Functions with pointwise discontinuous restrictions. (English summary) **94e:26007**
— The Darboux property in some families of Baire 1 functions. (English summary) **94j:26004**
Kirchheim, Bernd Typical approximately continuous functions are surprisingly thick. (English summary) **94a:26006**
Komjáth, Péter A note on Darboux functions. **94f:26001**
Lahiri, B. K. (*with* Chakrabarti, Sadasiv) Uniformly approximately continuous functions.
Łazarow, Ewa *see* **Libicka, Inga; et al., 94j:26005**
Libicka, Inga (*with* Lazarow, Ewa; Szkopińska, Bożena) On some generalizations of symmetric continuity. (English and Polish summaries) **94j:26005**
Natkaniec, Tomasz On quasi-continuous functions having Darboux property. (English summary) **94j:26006**
— On Grande's problem concerning $\mathscr{B}_1^*$ functions. (English summary) **94k:26005**
Pawlak, Helena (*with* Pawlak, Ryszard Jerzy) A local characterization of Darboux(B) functions. The semicontinuity of monotone functions. **94f:26002**
Pawlak, Ryszard Jerzy *see* **Pawlak, Helena, 94f:26002**
Petruska, György On the relative grid dimension of continuous functions. **94c:26002**
Pitman, J. W. *see* **Evans, Steven N., 94b:26002**
Rieders, Eric *see* **Ash, J. Marshall; et al., 94i:26001**
Rosen, Harvey Closure of Darboux graphs. **94b:26005**
Šalát, Tibor *see* **Borsík, Ján, 94m:26006**
Shakh, L. G. On the equivalence of some constructions of kth moduli of continuity. (Russian. Russian summary) (*see* **94c:41001**)
Szkopińska, Bożena *see* **Libicka, Inga; et al., 94j:26005**
Trofimchuk, S. I. Unbounded functions with differences that are bounded and uniformly continuous on **R**. (Russian. English and Ukrainian summaries) **94g:26007**
Wang, Guan Min *see* **Ash, J. Marshall; et al., 94i:26001**
Wilczyński, Władysław Sequence conditions which imply $\mathscr{I}$-approximate continuity. (English summary) **94j:26007**

Items with secondary classifications in 26A15

Berz, Martin Automatic differentiation as non-Archimedean analysis. (English summary) **94c:12013**
Cichoń, Jacek (*with* Morayne, Michał) An abstract version of Sierpiński's theorem and the algebra generated by **A** and **CA** functions. (English summary) **94c:54070**
Ciesielski, Krzysztof (*with* Nadler, Sam B., Jr.) An absorption property for the composition of functions. **94f:54027**

— (*with* Larson, Lee; Ostaszewski, Krzysztof) $\mathcal{I}$-density continuous functions. (English summary) **94f:54035**
Ewert, Janina On almost quasicontinuity of functions. (English summary) **94i:54024**
Grande, Zbigniew A note about the almost continuity. (English summary) **94a:54046**
Hlawka, Edmund Über eine Klasse von Näherungspolygonen zur Peanokurve. (English summary) [On a class of approximation polygons for the Peano curve] **94e:11090**
Larson, Lee *see* **Ciesielski, Krzysztof; et al., 94f:54035**
Lipiński, Jan Stanisław On some extensions of almost continuous functions and of connectivity functions. (English summary) **94m:26008**
Maříк, Jan Derivatives, continuous functions and bounded Lebesgue functions. **94d:26008**
Morayne, Michał *see* **Cichoń, Jacek, 94c:54070**
Nadler, Sam B., Jr. *see* **Ciesielski, Krzysztof, 94f:54027**
Nguyễn Xuân Ký On an imbedding theorem. **94b:46050**
Ostaszewski, Krzysztof *see* **Ciesielski, Krzysztof; et al., 94f:54035**
Sakálová, Katarína Graph continuity and quasicontinuity. (English summary) **94i:54030**
Tasković, Milan R. On transversal points. (English summary) **94e:47089**

26A16 Lipschitz (Hölder) classes

Mustăţa, Costică On a problem of extremum. **94a:26007**

Items with secondary classifications in 26A16

Cohen, Albert (*with* Daubechies, Ingrid) Orthonormal bases of compactly supported wavelets. III. Better frequency resolution. (English summary) **94h:42055b**
Das, Gokulananda (*with* Mohapatra, Minati) The degree of approximation of functions in the Hölder metric. **94c:41024**
Daubechies, Ingrid Orthonormal bases of compactly supported wavelets. II. Variations on a theme. (English summary) **94h:42055a**
— *see also* **Cohen, Albert, 94h:42055b**
Dontchev, Asen L. (*with* Hager, William W.) Lipschitzian stability in nonlinear control and optimization. (English summary) **94d:49041**
Frölicher, Alfred (*with* Kriegl, Andreas) Differentiable extensions of functions. (English summary) **94k:26024**
Hager, William W. *see* **Dontchev, Asen L., 94d:49041**
Kang, Hyeonbae (*with* Seo, Jin Keun) L^2-boundedness of the Cauchy transform on smooth non-Lipschitz curves. **94k:42032**
Kriegl, Andreas *see* **Frölicher, Alfred, 94k:26024**
Merentes, Nelson On the composition operator in $AC[a, b]$. (English summary) **94a:47054**
Mohapatra, Minati *see* **Das, Gokulananda, 94c:41024**
Nguyễn Xuân Ký On an imbedding theorem. **94b:46050**
Seo, Jin Keun *see* **Kang, Hyeonbae, 94k:42032**

26A18 Iteration [see also 39B12, 47H10, 54H25, 58F08, 58F13]

Bruckner, Andrew (*with* Smítal, J.) A characterization of ω-limit sets of maps of the interval with zero topological entropy. (English summary) **94k:26006**
Drobot, Vladimir On the speed of convergence of iteration of a function. (English summary) **94k:26007**
Gronau, Detlef An asymptotic formula for the iterates of a function. (English summary) **94a:26008**
Keller, Paul S. Chaotic behavior of Newton's method. **94j:26008**
Smítal, J. *see* **Bruckner, Andrew, 94k:26006**

Items with secondary classifications in 26A18

Bruckner, Andrew Some problems concerning the iteration of real functions. **94h:58114**
Esquembre, Francisco Twist orbits for noncontinuous maps of degree one. (English summary) **94g:58177**
Gronau, Detlef The Jabotinsky equations and the embedding problem. (English summary) **94b:39036**
Koga, Shinji Erratum: "Phase description method to invariant densities in 1-D difference systems" [Progr. Theoret. Phys. **80** (1988), no. 2, 216–231; MR 89j:58056].
Kolyada, S. F. (*with* Snoha, Ľubomír) On ω-limit sets of triangular maps. **94b:58057**
Liu, Ze Qing On continuous maps of the interval. (English summary) **94d:54090**
Misiurewicz, Michał (*with* Tolosa, Juán J.) Entropy of snakes and the restricted variational principle. (English summary) **94a:28037**
Nowicki, Tomasz Some dynamical properties of S-unimodal maps. (English summary) **94c:58111**
Peirone, Roberto The rotation number of ODEs with a chessboard structure. (English summary) **94h:58095**
Sablik, Maciej Iteration groups of additive functions. (English summary) **94a:39016**
Short, L. Iteration and bilinear transformations. (English summary) **94c:39003**
Snoha, Ľubomír *see* **Kolyada, S. F., 94b:58057**
Sullivan, Dennis P. Renormalization, Zygmund smoothness and the Epstein class. **94c:58097**
Tolosa, Juán J. *see* **Misiurewicz, Michał, 94a:28037**

26A21 Classification of real functions; Baire classification of sets and functions [see also 04A15, 28A05, 54C50]

Gordon, Russell A. Baire one functions and perfect sets. **94d:26007**
Grande, Zbigniew On the sums and products of Darboux Baire* 1 functions. **94i:26002**
— Baire functions and their restrictions to special sets. (English summary) **94j:26009**
Istrate, Gabriel I. Errata to: "On two generalizations of the Darboux property" [Real Anal. Exchange **17** (1991/1992), no. 2, 535–544; MR 93e:26003].
Kirchheim, Bernd Baire one star functions. **94g:26008**
— Some further typical results on bounded Baire one functions. **94k:26008**
Koumoullis, George A generalization of functions of the first class. (English summary) **94e:26008**
Łazarow, Ewa Topologies generated by the family of all $\mathcal{I}$-sparse sets. (English summary) **94m:26007**
Lipiński, Jan Stanisław On some extensions of almost continuous functions and of connectivity functions. (English summary) **94m:26008**
Natkaniec, Tomasz Products of Darboux functions. **94b:26006a**
— Errata: "Products of Darboux functions". **94b:26006b**
Vasilache, Tiberiu On the uniform convergence of the sequences of functions having the Darboux property.
Wang, Zu Yue Nonclosedness of a linear operation on Baire* 1, Darboux functions. (Chinese. English and Chinese summaries) **94b:26007**

Items with secondary classifications in 26A21

Anisiu, Valeriu Porosity and continuous, nowhere differentiable functions. (English and French summaries) **94h:26007**
Borsík, Ján Limit of simply continuous function. **94b:54038**
— Errata to: "Limits of simply continuous functions" [Real Anal. Exchange **18** (1992/1993), no. 1, 270–275; MR 94b:54038].
Foran, James On the translates of a set which meet it in a set of positive measure. (English summary) **94i:28004**
Grande, Zbigniew On the Darboux property of restricted functions. **94b:26003**
— On a theorem of Menkyna. (English summary) **94b:26004**
Hejduk, Jacek Non-Baire sets in category bases. **94h:04001**
Ilmuradov, D. D. On differentiable properties of real functions. (Russian. Russian summary) **94e:26010**
Lazarow, Ewa *see* **Libicka, Inga; et al., 94j:26005**
Libicka, Inga (*with* Lazarow, Ewa; Szkopińska, Bożena) On some generalizations of symmetric continuity. (English and Polish summaries) **94j:26005**
Maliszewski, Aleksander Algebra generated by nondegenerate derivatives. (English summary) **94g:26018**
Maříк, Jan Norms and derivatives. **94e:26011**
Matejdes, Milan The projective properties of the extreme path derivatives. (English summary) **94e:26012**
Meinershagen, Sandra The packing measure and symmetric derivation basis measure. II. **94d:28002**
Miller, Harry I. On subspaces of the reals over the field of rationals. (Italian summary) **94h:28001**
Natkaniec, Tomasz On Grande's problem concerning $\mathcal{B}_1^*$ functions. (English summary) **94k:26005**
Nymann, J. E. The sum of the Cantor set with itself. **94g:04004**
Rosen, Harvey Closure of Darboux graphs. **94b:26005**
Szkopińska, Bożena *see* **Libicka, Inga; et al., 94j:26005**

26A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [see also 28A15]

Buczolich, Zoltán (*with* Evans, Michael Jon; Humke, P. D.) Approximate high order smoothness. **94e:26009**
Cheng, Chu Shu Some criteria for continuity of derived functions. (Chinese)
Dodson, M. M. Chord theorems, circle maps and the Borsuk-Ulam antipodal theorem. (English summary) **94h:26005**
Evans, Michael Jon (*with* Fu, Shu Sheng) Mean value properties for symmetrically differentiable functions. **94a:26009**
— A note on symmetric and ordinary differentiation. **94b:26008a**
— Some theorems whose σ-porous exceptional sets are not σ-symmetrically porous. **94b:26008b**
— (*with* Vallin, Robert W.) Qualitative symmetric differentiation. (English summary) **94b:26009**
— *see also* **Buczolich, Zoltán; et al., 94e:26009**
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26A42 Integrals of Riemann, Stieltjes and Lebesgue type [see also 28–XX]

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26B15 Integration: length, area, volume [see also 28A75, 51M25]

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Yen, N. D. (*with* Phạm Hữ'u Sách) On locally Lipschitz vector-valued invex functions. (English summary) **94b:90057**
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26B30 Absolutely continuous functions, functions of bounded variation

Gotoh, Yasuhiro BMO extension theorem for relative uniform domains. **94d:26016**
Singman, David Lower derivatives of functions of finite variation and generalized BCH sets. **94c:26018**
Talalyan, F. A. On essentially absolutely continuous functions of several variables. (Russian. English, Russian and Armenian summaries) **94e:26025**
Valadier, Michel Absolue continuité et lipschitzité. [Absolute continuity and Lipschitzness] **94g:26023**

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Prandini, J. C. Extensions of the representation theorems of Riesz and Fréchet. (English summary) **94h:47061**

26B35 Special properties of functions of several variables, Hölder conditions, etc.

Gan, Xiao-Xiong (*with* Stromberg, Karl R.) On approximate antigradients. **94a:26030**
— (*with* Stromberg, Karl R.) On universal primitive functions. (English summary) **94g:26024**
Ilmuradov, D. D. Category theorem on contingencies of the hypersurfaces of a Euclidean space. (Russian. Russian and Ukrainian summaries) **94h:26016**
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Stromberg, Karl R. *see* **Gan, Xiao-Xiong, 94a:26030** *and* **94g:26024**
Trokhimchuk, Yu. Yu. (*with* Safonov, V. M.) On the structure of levels of functions in two variables. (Russian. Russian summary) **94j:26025**
Wang, Shi Ming Fractional integrals of periodic functions of several variables. (English summary) **94e:26026**

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Astala, Kari (*with* Hag, Kari; Hag, Per; Lappalainen, Vesa) Lipschitz classes and the Hardy-Littlewood property. (English summary) **94h:30026**
Charatonik, Janusz J. Inverse limit means and some functional equations. (English summary) **94b:39021**
Evans, Lawrence C. Estimates for smooth absolutely minimizing Lipschitz extensions. (English summary) **94k:35117**
Hag, Kari *see* **Astala, Kari; et al., 94h:30026**
Hag, Per *see* **Astala, Kari; et al., 94h:30026**
Hüseinov, Farhad Approximation of Lipschitz functions by infinitely differentiable functions with derivatives in a convex body. (English and Turkish summaries) **94g:41058**
Kirchheim, Bernd Baire one star functions. **94g:26008**
Kulosman, Hamid (*with* Miller, Harry I.) Additive functions with big graphs. (English summary) **94j:39009**
Lappalainen, Vesa *see* **Astala, Kari; et al., 94h:30026**
Miller, Harry I. *see* **Kulosman, Hamid, 94j:39009**
Valadier, Michel Absolue continuité et lipschitzité. [Absolute continuity and Lipschitzness] **94g:26023**
Zampieri, Gaetano On the inversion of smooth functions. (English summary) (*see* **94e:00020**)

26B40 Representation and superposition of functions

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Kondo, Hirofumi (*with* Yoshinaga, Etsuo) Differentiable odd functions. **94b:26015**
Schumaker, Larry L. *see* **Fitzpatrick, J. Michael, 94d:26017**
Yoshinaga, Etsuo *see* **Kondo, Hirofumi, 94b:26015**

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Dzagnidze, O. P. Boundary values of the derivatives of the Poisson integral for a ball and the representation of functions of two variables. (Russian. English summary) **94g:31006**
Induráin Eraso, Esteban *see* **Candeal, Juan Carlos, 94d:39006**
Natkaniec, Tomasz Arcwise almost continuous functions. (English summary) **94f:54029**
Sickel, Winfried Superposition of functions in Sobolev spaces of fractional order. A survey. **94e:46065**
Ukhlov, A. D. Mappings that generate embeddings of Sobolev spaces. (Russian. English and Russian summaries) **94g:30023**
Vassiliev, V. A. Spaces of functions that interpolate at any k-points. (Russian) **94a:58024**

26B99 None of the above, but in this section

Alsina, Claudi (*with* Tomás, M. S.) On positive semidefinite strict t-norms. (English summary) **94a:26031**
Galkanov, A. G. The minimum principle in the theory of means. (Russian. English summary) **94c:26019**
Ghamsari, Manouchehr Sobolev and quasiconformal extension domains. **94a:26032**
Shagalova, L. G. *see* **Subbotin, A. I., 94a:26033**
Subbotin, A. I. (*with* Shagalova, L. G.) Piecewise-linear functions defined by structure matrices. (Russian. Russian summary) **94a:26033**
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Liang, Chuan Guang (*with* Jing, Hai Ying; Jing, Zhi Ping) A note on matrix differential calculus. (Chinese. English and Chinese summaries) **94a:15051**
Michalski, Marek W. Derivatives of noninteger order and their applications. **94k:26011**
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Volgin, L. I. ★ Свойства и структуры функций осреднения. (Russian. Russian summary) [The properties and structures of averaging functions] **94m:94035**
Westby, Ina *see* **Durfee, Alan; et al., 94c:58016**

26Cxx Polynomials, rational functions

26C05 Polynomials: analytic properties, etc. [see also 12Dxx, 12Exx]

Kovačević, A. *see* **Milovanović, Igor Ž., 94g:26025**
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Varma, A. K. Markoff type inequalities for curved majorants in the weighted L^2 norm. (English summary) **94a:26034**
Zhu, Zi Qing Note on the maximal coefficient of the multinomial $(x_1 + x_2 + \cdots + x_k)^n$.

Items with secondary classifications in 26C05

Aron, Richard (*with* Beauzamy, Bernard; Enflo, Per) Polynomials in many variables: real vs complex norms. (English summary) **94h:32003**
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Brenti, Francesco (*with* Royle, Gordon F.; Wagner, David G.) Location of zeros of chromatic and related polynomials of graphs. (English summary) **94k:05077**
Enflo, Per *see* **Aron, Richard; et al., 94h:32003**
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Wagner, David G. *see* **Brenti, Francesco; et al., 94k:05077**

26C10 Polynomials: location of zeros [see also 12D10, 30C15, 65H05]

Anderson, Bruce Polynomial root dragging. **94i:26006**
Argyros, Ioannis K. Bounds for the zeros of polynomials. (English summary) **94a:26035**
Bidkham, M. *see* **Dewan, K. K., 94j:26026**
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Korzh, S. A. (*with* Ovcharenko, I. E.; Ugrinovskiĭ, R. A.) P. L. Chebyshev's recursion: some analytic and computational aspects. (Russian. English and Ukrainian summaries) **94j:26027**
Kurtz, David C. A sufficient condition for all the roots of a polynomial to be real. **94a:26036**
Morelli, A. (*with* Verna, I.) A particular asymptotic behaviour of the zeros of σ-orthogonal polynomials. (English summary) **94j:26028**
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Ugrinovskiĭ, R. A. *see* **Korzh, S. A.; et al., 94j:26027**
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Wu, Hao Sheng Distribution of the roots of polynomials with real coefficients. (Chinese)

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Habsieger, Laurent (*with* Stanton, Dennis) More zeros of Krawtchouk polynomials. (English summary) **94k:33011**
Khimshiashvili, G. N. On the number of zeroes of a real polynomial endomorphism. (Russian and Georgian summaries) **94j:12002**
Mahdi, K. On Sendov's bound for zeros of a polynomial. (English summary) **94g:65051**
Stanton, Dennis *see* **Habsieger, Laurent, 94k:33011**
Totik, Vilmos (*with* Ullman, Joseph L.) Local asymptotic distribution of zeros of orthogonal polynomials. **94d:42031**
Ullman, Joseph L. *see* **Totik, Vilmos, 94d:42031**
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26C15 Rational functions [see also 14Pxx]

Items with secondary classifications in 26C15

Clements, D. J. Rational spectral factorization using state-space methods. (English summary) **94h:93023**
Raina, R. K. Determination of coefficients of power series representation of certain rational functions. (English summary) **94b:33011**

26C99 None of the above, but in this section

Abian, Alexander (*with* Sverchkov, S. R.) Solutions and representations by iterated radicals. (English summary)
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Items with secondary classifications in 26C99

Kuczma, Marek On measurable functions with vanishing differences. (English summary) **94k:39059**
Li, Xin[3] On the size of polynomials with curved majorant. (English summary) **94m:41016**

26Dxx Inequalities {For maximal function inequalities, see 42B25; for functional inequalities, see 39B72; for probabilistic inequalities, see 60E15.}

Items with secondary classifications in 26Dxx

Fink, A. M. *see* **Mitrinović, Dragoslav S.; et al., 94c:00004**
Mitrinović, Dragoslav S. (*with* Pečarić, Josip E.; Fink, A. M.) ★ Classical and new inequalities in analysis. (English summary) **94c:00004**
Pečarić, Josip E. (*with* Proschan, Frank; Tong, Yung Liang) ★ Convex functions, partial orderings, and statistical applications. **94e:26002**
— *see also* **Mitrinović, Dragoslav S.; et al., 94c:00004**
Proschan, Frank *see* **Pečarić, Josip E.; et al., 94e:26002**
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26D05 Inequalities for trigonometric functions and polynomials

Acu, Dumitru The use of quadrature formulae in obtaining inequalities. (Romanian summary) **94e:26027**
Lorch, Lee (*with* Russell, D. C.) Remarks on trigonometric inequalities. (English summary) **94a:26037**
McGregor, Malcolm T. (*with* Thompson, Anthony C.) On real polynomial forms and inequalities related to triangles. (English summary) **94i:26007**
Rassias, Themistocles M. On polynomial inequalities and extremal problems. (English summary) **94i:26008**
Russell, D. C. *see* **Lorch, Lee, 94a:26037**
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Varma, A. K. Markoff type inequalities for curved majorants in L_2 norm. **94e:26028**

Items with secondary classifications in 26D05

Agarwal, Ravi Prakash Sharp inequalities in polynomial interpolation. (English summary) **94k:41003**
Erdélyi, Tamás Remez-type inequalities and their applications. (English summary) **94m:26003**
Galeev, È. M. Bernstein-Nikol'skiĭ inequalities that are best with respect to choice of harmonics. (Russian) **94a:41027**
Hao, Zhi Chuan A refinement of the arithmetic-geometric means inequality. **94h:26023**
Losonczi, László On an extremal property of nonnegative trigonometric polynomials. (English summary) **94h:42001**
Milovanović, Gradimir V. (*with* Rassias, Themistocles M.) On Markov-Duffin-Schaeffer inequalities. (English summary) **94h:26017**
Olivier, P. F. (*with* Watt, A. O.) Polynomials with a prescribed zero and the Bernstein's inequality. (English summary) **94d:30004**
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Varma, A. K. Markoff type inequalities for curved majorants in the weighted L^2 norm. (English summary) **94a:26034**
Watt, A. O. *see* **Olivier, P. F., 94d:30004**

26D07 Inequalities involving other types of functions

Brownstein, K. R. *see* **Kleban, P.; et al., 94i:26009**
Dragomir, Sever Silvestru (*with* Milošević, Dragoljub M.) A sequence of mappings connected with Jensen's inequality and applications. (English summary)
Kleban, P. (*with* Brownstein, K. R.; Vassileva, I.) Real-function inequalities from conformal maps. (English summary) **94i:26009**
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Páles, Zsolt Comparison of two variable homogeneous means. (English summary) **94b:26016**
Pečarić, Josip E. (*with* Raşa, I.) Inequalities for divided differences of n-convex functions. (Romanian summary)
— Remarks on two interpolations of Hadamard's inequalities. (English and Macedonian summaries)
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Strömberg, Thomas An operation connected to a Young-type inequality. (English summary) **94f:26008**
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Zhuang, Ya Dong The Beckenbach inequality and its inverse. (English summary) **94c:26020**

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Laforgia, Andrea (*with* Sismondi, Silvana) Some functional inequalities for complete elliptic integrals. (English summary) **94e:33042**
Maligranda, Lech *see* **Kruglyak, N. Ya.; et al., 94k:46153**
Persson, Lars-Erik *see* **Kruglyak, N. Ya.; et al., 94k:46153**
Raşa, I. Differential inequalities for convex functions. (Romanian summary) (*see* **94j:00024**)
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26D10 Inequalities involving derivatives and differential and integral operators

Alzer, Horst On an integral inequality for concave functions. **94a:26038**
Belousova, L. P. Best constants in some analogues of Kolmogorov inequalities on the semi-axis. (Russian) **94g:26026**
Beynon, M. J. (*with* Brown, B. Malcolm; Evans, W. D.) On an inequality of the Kolmogorov type for a second-order differential expression. (English summary) **94g:26027**
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Brown, Richard C. (*with* Hinton, D. B.) A weighted Hardy's inequality and nonoscillatory differential equations. (English summary) **94a:26039**
— (*with* Hinton, D. B.) Interpolation inequalities with power weights for functions of one variable. **94f:26009**
Carozza, Menita Hardy's inequality with weights for nonincreasing functions. (English and Italian summaries) **94i:26010**
Cheung, Wing Sum Opial-type inequalities with m functions in n variables. (English summary) **94a:26040**
— On some new integrodifferential inequalities of the Gronwall and Wendroff type. (English summary) **94f:26010**
Evans, W. D. *see* **Beynon, M. J.; et al., 94g:26027**

He, Xing Gang A short proof of a generalization on Opial's inequality.
Hinton, D. B. *see* **Brown, Richard C., 94a:26039** *and* **94f:26009**
Kufner, Alois (*with* Wannebo, Andreas) Some remarks on the Hardy inequality for higher order derivatives. (English summary) **94b:26017**
— Some remarks concerning the Hardy inequality. **94m:26020**
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Kwong, Man Kam (*with* Zettl, Anton) ★ Norm inequalities for derivatives and differences. **94f:26011**
Lee, Will Y. Note on the inequalities of J. Kazdan. (English summary) **94a:26041**
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Novotná, Jarmila Discrete analogues of certain inequalities of Wirtinger type involving a function and its first and second derivatives. (English and Serbo-Croatian summaries) **94c:26021**
Pachpatte, B. G. On certain new discrete inequalities. **94e:26029**
— A note on generalized Opial type inequalities. (English summary) **94h:26019**
Pearson, J. Michael An elementary proof of Gross' logarithmic Sobolev inequality. **94g:26028**
Pérez, Carlos On a theorem of Muckenhoupt and Wheeden and a weighted inequality related to Schrödinger operators. **94b:26018**
Taĭkov, L. V. Hardy inequalities. (Russian) **94d:26018**
Trần Đứ'c Vân (*with* Nguyen Duy Thai Son) On a class of Lipschitz continuous functions of several variables. (English summary) **94i:26011**
Walter, Wolfgang L. (*with* Weckesser, Volkmar) An integral inequality of convolution type. (English summary) **94e:26030**
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Xie, Hong Zheng Integral inequalities of Gronwall-Bihari type. (Chinese)
Yanagihara, Hiroshi[2] An integral inequality for derivatives of equimeasurable rearrangements. (English summary) **94b:26019**
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Ashbaugh, Mark S. (*with* Brown, Richard C.; Hinton, D. B.) Interpolation inequalities and nonoscillatory differential equations. (English summary) **94k:34058**
Benedetto, John J. (*with* Heinig, Hans P.) Fourier transform inequalities with measure weights. II. **94d:42017**
Berezhnoĭ, E. I. Hardy-type inequalities on cones in ideal spaces. (Russian) **94k:46055**
— Two-weight estimates for the integration operator for the classes $\Phi(L)$. (Russian) **94i:47078**
Bramanti, Marco On the gradient of Schwarz symmetrization of functions in Sobolev spaces. (Italian summary) **94d:46036**
Brandi, Primo (*with* Marcelli, Cristina) Functional extension of Gronwall's inequality and Haar's lemma. (English summary) (*see* **94e:00020**)
Brown, Richard C. *see* **Ashbaugh, Mark S.; et al., 94k:34058**
Chiti, Giuseppe (*with* Longinetti, Marco) Differential inequalities for Minkowski functionals of level sets. (English summary) **94b:49073**
Chu, Chiu Wing *see* **Tso, Kaising, 94h:46052**
Chua, Seng-Kee Extension theorems on weighted Sobolev spaces. (English summary) **94a:46035**
Dragomir, Sever Silvestru (*with* Pečarić, Josip E.) A generalization of Slater's inequality. (English and Serbo-Croatian summaries) **94e:26033**
Edmunds, David E. (*with* Opic, B.; Rákosník, J.) Poincaré and Friedrichs inequalities in abstract Sobolev spaces. II. **94m:46058**
Essén, Matts Some best constant inequalities for conjugate functions. (English summary) **94b:30043**
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Fontana, Luigi Sharp borderline Sobolev inequalities on compact Riemannian manifolds. **94h:46048**
Friedman, Eduardo (*with* Skoruppa, Nils-Peter) Lower bounds for the L^p-norm in terms of the Mellin transform. (English summary) **94h:44001**
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Guseĭnov, R. V. Inequalities of Hardy type and their applications in the theory of quasi-elliptic equations. (Russian) **94i:35056**
Heinig, Hans P. (*with* Kufner, Alois) Weighted Friedrichs inequalities in amalgams. **94g:42012**
— *see also* **Benedetto, John J., 94d:42017**
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Il'in, A. A. Lieb-Thirring inequalities on the N-sphere and in the plane, and some applications. (English summary) **94d:35129**
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Oinarov, R. On a three-weight inequality. (Russian. English, Russian and Kazakh summaries) **94k:46066**
— On weighted norm inequalities with three weights. (English summary) **94d:46038**
Opic, B. (*with* Gurka, P.) Weighted inequalities for geometric means. **94e:26036**
— *see also* **Edmunds, David E.; et al., 94m:46058**
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Raşa, I. On some systems of linear inequalities. IV. (Romanian summary)
Saitoh, Saburou Inequalities for the solutions of the heat equation. (English summary) **94b:35127**
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Zhuk, V. V. (*with* Natanson, G. I.) Approximation of functions on standard simplexes. (Russian) **94h:41014**

26D15 Inequalities for sums, series and integrals

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Alzer, Horst On weighted arithmetic, geometric and harmonic mean values. (English and Serbo-Croatian summaries) **94k:26019**
— A converse of the arithmetic mean–geometric mean inequality. (English summary) **94k:26020**
— Inequalities for pseudo-arithmetic and geometric means. (English summary) **94c:26022**
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— On an inequality of H. Minc and L. Sathre. (English summary) **94k:26021**
— (*with* Brenner, J. L.; Ruehr, O. G.) Inequalities for the tails of some elementary series. (English summary) **94k:26022**
— On Carleman's inequality. (English summary) **94j:26030**
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Bergh, J. A converse inequality of Hölder type. **94m:26022**
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— On some improvements of Čebyšev's inequality for sequences and integrals. (Romanian summary) **94c:26024**
— Some integral inequalities for differentiable convex functions. (English and Macedonian summaries)
— (*with* Sándor, J.) Some inequalities for uniformly-convex functions. **94m:26023**
— (*with* Crstici, Borislav) Deux inégalités pour des fonctions convexes. (French summary) [Two inequalities for convex functions] **94b:26023**
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— Errata: "Two refinements of the arithmetic mean-geometric mean inequality" [Nieuw Arch. Wisk. (4) **11** (1993), no. 1, 9–12; MR 94c:26025].
— About Chebishew's inequality.
— A refinement of Hadamard's inequality for isotonic linear functionals. (English summary) **94a:26043**
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— On Hilbert inequality and its application. (English and Chinese summaries) **94h:26024**
Hu, Wei (*with* Shi, Xian Liang; Sun, Qi Yu) A_∞ condition characterized by maximal geometric mean operator. **94k:26023**
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— (*with* Pečarić, Josip E.) Remark on a recent converse of Hölder's inequality.
Needham, Tristan A visual explanation of Jensen's inequality.
Opic, B. (*with* Gurka, P.) Weighted inequalities for geometric means. **94e:26036**
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— An inequality involving a series of positive terms. (English summary)
— A note on certain multivariate integral inequalities. (English summary) **94d:26020**
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— *see also* **Mitrinović, Dragoslav S., 94a:26048; Milovanović, Igor Ž.; et al., 94b:26024; Dragomir, Sever Silvestru, 94e:26033; Mond, B., 94h:26025**
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— *see also* **Dragomir, Sever Silvestru, 94m:26023**
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— *see also* **Milovanović, Igor Ž.; et al., 94b:26024**
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Zhang, Yu Feng *see* **Fu, Xi Lian; et al.**
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Dragomir, Sever Silvestru On some refinement of Jensen's inequality and applications. (English summary) **94d:26014**
Dragomirescu, Mihai (*with* Ivan, Constantin) Convexity-like inequalities for averages in a convex set. (English summary) **94c:26013**
Erdős, Paul (*with* Newman, Donald J.; Knappenberger, J.) Forcing two sums simultaneously. (English summary) **94d:41021**
Gabidzashvili, M. A. (*with* Kokilashvili, V. M.) Weighted inequalities for anisotropic potentials. (Russian. English summary) **94e:42018**
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Hu, Shi Geng Generalized Volterra-type integral equations and integral inequalities. (Chinese. English and Chinese summaries) **94k:45003**
Hudson, Steven M. (*with* Leckband, Mark) Hardy's inequality and fractal measures. **94e:42020**
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Lai, Qin Sheng (*with* Pick, Luboš) The Hardy operator, L_{∞}, and BMO. (English summary) **94e:47042**
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— (*with* Persson, Lars-Erik) On Clarkson's inequalities and interpolation. (English summary) **94h:46113**
Mathias, Roy An arithmetic-geometric-harmonic mean inequality involving Hadamard products. (English summary) **94b:15019**
Matkowski, Janusz (*with* Świątkowski, Tadeusz) Subadditive functions and partial converses of Minkowski's and Mulholland's inequalities. (English summary) **94m:39005**
Mazhar, S. M. An integrability theorem for power series. **94h:40005**
Mellone, Rita Lower oscillation inequalities. (English and Italian summaries) **94j:42032**
Mond, B. (*with* Pečarić, Josip E.) Convex inequalities in Hilbert space. (English summary) **94h:47031**
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Persson, Lars-Erik *see* **Maligranda, Lech, 94h:46113**
Pick, Luboš *see* **Lai, Qin Sheng, 94e:47042**
Russell, D. C. *see* **Lorch, Lee, 94a:26037**
Shu, Jian Xian (*with* Peng, Xiao Ning) Probabilistic and analytic methods for the proof of some identities and inequalities. (Chinese) **94i:05006**
Świątkowski, Tadeusz *see* **Matkowski, Janusz, 94m:39005**
Watanabe, Hiroshi[1] Some inequalities of means and its applications to Bergman spaces. (English summary) **94f:30050**

26D20 Other analytical inequalities

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Gogatishvili, A. S. Weighted inequalities for vector-valued fractional maximal functions. (Russian. English summary) **94e:26037**
Raşa, I. (*with* Toader, Gh.) Estimations for the difference of power means. (English summary)
Shakh, L. G. (*with* Shevchuk, I. A.) On a negative result connected with the Marchaud inequality. (Russian. Russian summary) (*see* **94c:41001**)
Shevchuk, I. A. *see* **Shakh, L. G., (94c:41001)**
Talenti, Giorgio An inequality between u^* and $|\text{grad } u|^*$. (English summary) **94b:26026**
Toader, Gh. *see* **Raşa, I.**
Yin, Jing Yao (*with* Feng, Wei Chuan) A generalization of two inequalities. (Chinese. Chinese summary)

Items with secondary classifications in 26D20

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Beekmann, Wolfgang (*with* Zeller, Karl) Inequalities for summability factors. (English summary) **94b:40004**
Bencze, M. A new proof of the arithmetic-geometric mean inequality.
Chua, Seng-Kee On weighted Sobolev interpolation inequalities. (English summary) **94h:46046**
Coulhon, Thierry Sobolev inequalities on graphs and on manifolds. **94d:46075**
Dragomirescu, Mihai (*with* Ivan, Constantin) The smallest convex extension of a convex function. (English summary) **94h:26014**
Ger, Roman On functional inequalities stemming from stability questions. (English summary) **94b:39042**
Hurri-Syrjänen, Ritva An improved Poincaré inequality. **94b:46047**
Ivan, Constantin *see* **Dragomirescu, Mihai, 94h:26014**
König, Hermann Some remarks on the Grothendieck inequality. (English summary) **94h:46035**
Mohan, N. R. (*with* Adiga, Chandrashekar) A note on Ward's conjecture. **94k:11026**
Páles, Zsolt Comparison of two variable homogeneous means. (English summary) **94b:26016**
Rinott, Yosef (*with* Saks, Michael) On FKG-type and permanental inequalities. (English summary) **94f:60028**
Saks, Michael *see* **Rinott, Yosef, 94f:60028**
Zeller, Karl *see* **Beekmann, Wolfgang, 94b:40004**

26D99 None of the above, but in this section

Xiao, Shu Xian A simplified proof of an inequality. (Chinese)

Items with secondary classifications in 26D99

Satô, Hiroshi[1] (*with* Watari, Chinami) Some integral inequalities and absolute continuity of a symmetric random translation. (English summary) **94i:60058**
Watari, Chinami *see* **Satô, Hiroshi[1], 94i:60058**

26Exx Miscellaneous topics [see also 58Cxx]

26E05 Real-analytic functions [see also 32B05, 32C05]

Items with secondary classifications in 26E05

Abian, Alexander (*with* Wilson, James A.) The coefficients of the Laurent series expansions of real analytic functions. (English summary) **94e:30001**

Castilla, Ana Sums of $2n$th powers of meromorphic functions with compact zero set. **94e:32016**
Neuberger, J. W. Predictability in absence of chaos. (English summary) **94c:58130**
Schmets, Jean (*with* Valdivia, Manuel) Domains of analyticity in real normed spaces. (English summary) **94c:46084**
Valdivia, Manuel *see* **Schmets, Jean, 94c:46084**
Wilson, James A. *see* **Abian, Alexander, 94e:30001**

26E10 C^∞-functions, quasi-analytic functions [see also 58C25]

Frölicher, Alfred (*with* Kriegl, Andreas) Differentiable extensions of functions. (English summary) **94k:26024**
Kriegl, Andreas *see* **Frölicher, Alfred, 94k:26024**
Mikhailets, A. A. Quasi-analyticity of some classes of functions. (Russian. Russian summary) **94a:26050**
Struppa, Daniele C. A new look at the theory of quasianalytic classes. **94h:26026**

Items with secondary classifications in 26E10

Franken, Uwe Continuous linear extension of ultradifferentiable functions of Beurling type. (English summary) **94m:46037**
— Examples of compact sets with nonempty interior which do not admit a continuous linear extension operator for ultradifferentiable functions of Beurling type. **94m:46038**
Gallagher, P. X. Translation invariants for periodic Denjoy-Carleman classes. **94b:46061**
Koosis, Paul ★ The logarithmic integral. II. **94i:30027**
Siddiqi, Jamil A. Characterizations of Carleman classes of entire functions and vectors. (English summary) **94k:46045**

26E15 Calculus of functions on infinite-dimensional spaces [see also 46G05, 58Cxx]

Gol'dman, M. L. On integral inequalities on the set of functions with some properties of monotonicity. **94i:26014**

Items with secondary classifications in 26E15

Azé, Dominique (*with* Volle, Michel) Various continuity properties of the deconvolution (or epigraphical difference). (English summary) **94e:52009**
Borwein, Jonathan M. Differentiability properties of convex, of Lipschitz, and of semicontinuous mappings on Banach spaces. **94h:46068**
— (*with* Fabián, M.) On generic second-order Gateaux differentiability. **94m:46078**
— (*with* Noll, Dominikus) Second order differentiability of convex functions in Banach spaces. **94e:46076**
Elqortobi, Abdelkader Conjugaison quasi convexe des fonctionnelles positives. [Quasiconvex conjugation of positive functionals] **94k:49037**
Eyland, Roger (*with* Sharp, Bernice) The Fréchet differentiability of convex functions on $C(S)$. **94c:46083**
Fabián, M. *see* **Borwein, Jonathan M., 94m:46078**
Jiang, Yu Shu *see* **Yin, Ri Xiu**
Jourani, A. (*with* Thibault, Lionel) The approximate subdifferential of composite functions. (English summary) **94d:49020**
Liczberski, Piotr (*with* Połubiński, Jerzy) Some applications of a generalization of the notions of even functions and odd functions. (English summary) **94c:46089**
Michel, Philippe (*with* Penot, Jean-Paul) Dérivées secondes modérées de fonctions non dérivables. (English and French summaries) [Moderate second-order derivatives of nondifferentiable functions] **94e:49003**
Noll, Dominikus *see* **Borwein, Jonathan M., 94e:46076**
Orlov, I. V. Differential calculus in infinite-dimensional spaces. (Russian) **94f:46056**
Penot, Jean-Paul *see* **Michel, Philippe, 94e:49003**
Poliquin, René (*with* Vanderwerff, Jon; Zizler, Václav) Convex composite representation of lower semicontinuous functions and renormings. (English and French summaries) **94i:46102**
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Száz, Árpád Unique Fréchet derivatives at some nonisolated points. **94c:46085**
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Vanderwerff, Jon *see* **Poliquin, René; et al., 94i:46102**
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Zizler, Václav *see* **Poliquin, René; et al., 94i:46102**

26E20 Calculus of functions taking values in infinite-dimensional spaces [see also 46E40, 46G10, 58Cxx]

Vianello, Marco A generalization of l'Hôpital's rule via absolute continuity and Banach modules. (English summary) **94c:26028**

Items with secondary classifications in 26E20

Ndakbo, Victor Une formule pour la dérivée en termes des différences finies. [A formula for the derivative in terms of finite differences] **94d:46048**

26E25 Set-valued functions [see also 28B20, 54C60] {For nonsmooth analysis, see 49J52, 58Cxx, 90Cxx.}

Czarnowska, J. Functional connectedness and Darboux property of multivalued functions. **94e:26038**
Matejdes, Milan Quasi-continuous and cliquish selections of multifunctions on product spaces. **94c:26029**

Items with secondary classifications in 26E25

Chen, Dian Fa Countably additive set functions on a semiring. (Chinese. Chinese summary) **94k:60019**
Hess, Christian Quelques versions multivoques du théorème de dérivation de Lebesgue. [Some multivalued versions of the Lebesgue differentiation theorem] **94d:49016**
Nikol'skiĭ, M. S. On absolutely continuous multivalued mappings. (Russian. Russian summary) **94d:28016**

26E30 Non-Archimedean analysis [see also 12J25]

Items with secondary classifications in 26E30

Berz, Martin Automatic differentiation as non-Archimedean analysis. (English summary) **94c:12013**
Bishop, Edward Isometries of the p-adic numbers. **94f:11124**
Christol, Gilles p-adic numbers and ultrametricity. **94f:11126**
Verdoodt, Ann Jackson's formula with remainder in p-adic analysis. (English summary) **94m:11142**

26E35 Nonstandard analysis [see also 03H05, 28E05, 54J05]

Cutland, Nigel J. (*with* Feng, Han Qiao) An infinitesimal proof of the implicit function theorem. **94d:26021**
Feng, Han Qiao *see* **Cutland, Nigel J., 94d:26021**
Sun, Guang Run *see* **Xu, Li Zhi, 94a:26051**
Xu, Li Zhi (*with* Sun, Guang Run) Simple nonstandard analysis proofs of some well-known theorems on infinite series, and some comments. (Chinese. English and Chinese summaries) **94a:26051**

Items with secondary classifications in 26E35

Ben El Mamoune, Idriss (*with* Benoît, Éric; Lobry, Claude) Une version non standard du théorème de F. Riesz. (English and French summaries) [A nonstandard version of a theorem of F. Riesz] **94b:03105**
Benoît, Éric *see* **Ben El Mamoune, Idriss; et al., 94b:03105**
Chen, Guang Yi The hyper-global asymptotic stability of autonomous system. (English summary) **94f:34101**
Gordon, E. I. Nonstandard analysis and locally compact abelian groups. **94f:22004**
Insall, Matt Corrigendum to: "Some finiteness conditions in lattices—using nonstandard proof methods" [J. Austral. Math. Soc. Ser. A **53** (1992), no. 2, 266–280; MR 93i:06001]. **94b:03105**
Lobry, Claude *see* **Ben El Mamoune, Idriss; et al., 94b:03105**
Loeb, Peter Nonstandard analysis and measure theory. **94d:28023**
Murakami, Masahiko A nonstandard proof of the continuity of zeros of polynomials. (English summary) **94c:12001**
Péraire, Yves Analyse relative. [Relative analysis] **94j:03133**

26E40 Constructive real analysis [see also 03F60, 03F65]

Items with secondary classifications in 26E40

Lisovik, L. P. Representation of linear functionals over partially continuous functions. (Russian. English and Ukrainian summaries) **94c:46157**

26E50 Fuzzy real analysis [see also 04A72, 28E10]

Burgin, M. S. (*with* Shostak, A. P.) Fuzzification of the theory of continuous functions. (English summary) **94j:26032**
Jiang, Xing Zhong The tK-integral and the Kt-integral. (Chinese. English and Chinese summaries) **94g:26037**
Ma, Ming On embedding problems of fuzzy number spaces. IV. (English summary) **94e:26039**
Matloka, Marian On integration of possibility interval mappings. (English summary)
Shostak, A. P. *see* **Burgin, M. S., 94j:26032**
Xiao, Sheng Chao An equivalent characterization of $(R(L), \odot)$. (Chinese. English and Chinese summaries) **94e:26040**

Items with secondary classifications in 26E50

Allam, A. A. Some more results on fuzzy continuity. (English and Arabic summaries) **94d:54016**

26E99 None of the above, but in this section

Biró, András Notes on nonnegative convergent series. **94h:26027**
Vallin, Robert W. An introduction to shell porosity. (English summary) **94e:26041**

Items with secondary classifications in 26E99

Hyman, Daniel M. A theory of discrete analysis. **94k:46001**
— Discrete analysis in commutative rings. **94k:46002**
Inoue, Atsushi Foundation of real analysis on the superspace $\mathfrak{R}^{m|n}$ over the ∞-dimensional Fréchet-Grassmann algebra. (English summary) **94d:58021**
Marshall, Albert W. Multivariate stochastic orderings and generating cones of functions. (English summary) **94a:60023**

28-XX Measure and integration {For analysis on manifolds, see 58-XX.}

28-01 Instructional exposition (textbooks, tutorial papers, etc.)

Airault, H. *see* **Malliavin, Paul, 94j:28001**
Malliavin, Paul (*with* Airault, H.) ★ Intégration et analyse de Fourier. Probabilités et analyse gaussienne. (French. French summary) [Integration and Fourier analysis. Probability theory and Gaussian analysis] **94j:28001**
Neubrunn, Tibor *see* **Riečan, Beloslav, 94g:28001**
Riečan, Beloslav (*with* Neubrunn, Tibor) ★ Teória miery. (Slovak) [Measure theory] **94g:28001**

Items with secondary classifications in 28-01

Aquaro, Giovanni Daniell integrals and integration with respect to positive Radon measures on locally compact spaces. (Italian) **94i:28010**
Bröcker, Theodor ★ Analysis. II. (German. German summary) **94c:00001b**
Foran, James ★ Fundamentals of real analysis. **94e:00002**
Lang, Serge ★ Real and functional analysis. (English summary) **94b:00005**
Ruckle, William H. ★ Modern analysis. **94f:46002**
Sherstnev, A. N. ★ Конспект лекций по математическому анализу. (Russian. Russian summary) [A summary of lectures on mathematical analysis] **94f:00003**
Storch, Uwe (*with* Wiebe, Hartmut) ★ Lehrbuch der Mathematik für Mathematiker, Informatiker und Physiker. Band III. (German) [Textbook of mathematics for mathematicians, computer scientists and physicists. Vol. III] **94k:00002**
Wiebe, Hartmut *see* **Storch, Uwe, 94k:00002**

28-02 Research exposition (monographs, survey articles)

Items with secondary classifications in 28-02

(Mycielski, Jan) *see* **Wagon, Stan, 94g:04005**
Wagon, Stan ★ The Banach-Tarski paradox. (English summary) **94g:04005**

28-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 28-03

Michel, Alain ★ Constitution de la théorie moderne de l'intégration. (French) [Formation of the modern theory of integration] **94d:01039**

28-06 Proceedings, conferences, collections, etc.

(Bandt, Christoph) *see* **Topology, measures, and fractals, 94a:28001**
(Flachsmeyer, Jürgen) *see* **Topology, measures, and fractals, 94a:28001**
(Haase, Hermann) *see* **Topology, measures, and fractals, 94a:28001**

Items listed otherwise than by author

Conference:
Topology and Measure ★ Topology, measures, and fractals. **94a:28001**
Grado ★ School on Measure Theory and Real Analysis. **94e:28001**
School:
Measure Theory and Real Analysis ★ School on Measure Theory and Real Analysis. **94e:28001**
Topology, measures, and fractals ★ Topology, measures, and fractals. **94a:28001**
Warnemünde ★ Topology, measures, and fractals. **94a:28001**

Items with secondary classifications in 28-06

(Dvurečenskij, Anatolij) *see* **Measure theory, 94m:00027**
(Pulmannová, Sylvia) *see* **Measure theory, 94m:00027**

Items listed otherwise than by author

Liptovský Ján ★ Measure theory. **94m:00027**
Measure theory ★ Measure theory. **94m:00027**
School:
Measure Theory ★ Measure theory. **94m:00027**

28Axx Classical measure theory

28A05 Classes of sets (Borel fields, σ-rings, etc.), measurable sets, Suslin sets, analytic sets [see also 03E15, 04A15, 26A21, 54H05]

Baloglou, George (*with* Tracy, Phil) A problem in the open disc. (English summary) (*see* **94m:54001**)
Basu, S. *see* **Ganguly, D. K., 94f:28001** *and* **94k:28002**
Bernardi, M. P. (*with* Bondioli, C.) Partitions of a locally compact group into nonmeasurable sets. (Italian. English summary) **94a:28002**
Bondioli, C. *see* **Bernardi, M. P., 94a:28002**
Crnjac, M. (*with* Miller, Harry I.) On several classes of sets. III. **94c:28001**
Cugiani, Marco On a question of measure theory. (Italian. English summary) **94m:28001**
Detlefsen, Michael E. (*with* Szymański, Andrzej) Category bases. (English summary) **94k:28001**
Ganguly, D. K. (*with* Basu, S.) On ratio sets of real numbers. (English summary) **94f:28001**
— (*with* Basu, S.) A note on nonmeasurable sets. (English summary) **94k:28002**
Kharazishvili, A. B. The Baire property and its applications. (Russian. English, Russian and Georgian summaries) **94m:28002**
Kuba, A. (*with* Volčič, A.) The structure of the class of non-uniquely reconstructible sets. (English summary) **94m:28003**
Miller, Harry I. On subspaces of the reals over the field of rationals. (Italian summary) **94h:28001**
— *see also* **Crnjac, M., 94c:28001**
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Sherman, Glen Aldridge Measure ratio of equidecomposable sets. (English summary) **94a:28004**
Stromberg, Karl R. Universally nonmeasurable subgroups of **R**. **94d:28001**
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Taylor, Keith F. (*with* Wang, Xikui) A metric space associated with a probability space. (English summary) **94c:28002**
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Wang, Xikui Completeness of the set of sub-σ-algebras. (English summary) **94f:28002**
— *see also* **Taylor, Keith F., 94c:28002**

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Ayerbe Toledano, José María The category-base of density. (Spanish. English and Spanish summaries)
Bartoszyński, Tomek (*with* Judah, Haim) Measure and category—filters on ω. (English summary) **94i:03097**
Becker, Howard Descriptive set-theoretic phenomena in analysis and topology. **94k:03062**
Carlson, Timothy J. Strong measure zero and strongly meager sets. **94b:03086**
Cichoń, Jacek (*with* Kharazishvili, A. B.; Węglorz, B.) On selectors associated with some subgroups of the real line. (Russian and Georgian summaries) **94c:03065**
Darji, Udayan B. Uniformly completely Ramsey sets. **94e:04005**
Dougherty, Randall (*with* Jackson, Stephen Craig; Kechris, Alexander S.) The structure of hyperfinite Borel equivalence relations. **94c:03066**
Evans, Michael Jon A note on symmetric and ordinary differentiation. **94b:26008a**
— Some theorems whose σ-porous exceptional sets are not σ-symmetrically porous. **94b:26008b**
Foran, James On the translates of a set which meet it in a set of positive measure. (English summary) **94i:28004**
Gitik, Moti (*with* Shelah, Saharon) More on simple forcing notions and forcings with ideals. (English summary) **94c:03070**
Hejduk, Jacek Non-Baire sets in category bases. **94h:04001**
Holický, Petr Borel maps with the "point of continuity property" and completely Borel additive families in some nonmetrizable spaces. (English summary) **94e:54048**
Jackson, Stephen Craig *see* **Dougherty, Randall; et al., 94c:03066**
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Kirchheim, Bernd Some further typical results on bounded Baire one functions. **94k:26008**
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Lecomte, Dominique Classes de Wadge potentielles des boréliens à coupes dénombrables. (English and French summaries) [Potential Wadge classes of Borel sets with countable sections] **94i:54080**
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28A10 Real- or complex-valued set functions

Alspach, Dale E. Level sets and the uniqueness of measures. (English summary) **94h:28002**
Appling, William D. L. Approximate set function measurability decomposition and range union inclusion. (English summary) **94c:28003**
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van Douwen, Eric K. Finitely additive measures on N. (English summary) **94c:28004**
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Klimkin, V. M. (*with* Sribnaya, T. A.) Extension of a quasitriangular submeasure. (Russian) **94f:28003**
Li, Ze Zhi σ-additivity of additive set functions. (Chinese. English and Chinese summaries)
Meinershagen, Sandra The packing measure and symmetric derivation basis measure. II. **94d:28002**
Sribnaya, T. A. *see* **Klimkin, V. M., 94f:28003**

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Chen, Dian Fa Countably additive set functions on a semiring. (Chinese. Chinese summary) **94k:60019**
Klimkin, V. M. Some properties of regular set functions. (Russian. Russian summary) **94a:28026**
König, Heinz On inner/outer regular extensions of contents. **94a:28006**
Molodtsov, D. A. ★ К общей теории абстрактного интервального интеграла. (Russian. Russian summary) [On a general theory of an abstract interval integral] **94a:28024**
Parker, June M. Extreme points of a set of contents majorized by a submodular set function. **94a:28007**
Ylinen, Kari Representations of bimeasures. (English summary) **94c:28006**

28A12 Contents, measures, outer measures, capacities

Adamski, Wolfgang On extremal extensions of regular contents and measures. (English summary) **94j:28002**
Bamón, Rodrigo (*with* Plaza S., Sergio) Cantor sets, numerical invariants and Perron-Frobenius theory. (English summary) **94b:28001**
Basile, Achille (*with* Rao, K. P. S. Bhaskara; Shortt, R. M.) Bounded common extensions of charges. (English summary) **94g:28002**
Cater, F. S. On Borel measures on separable metric spaces. **94g:28003**
Chan, Jack-Kang Measures on coallocation and normal lattices. (English summary) **94f:28004**
Dekiert, Monika Two results for monocompact measures. (English summary) **94k:28003**
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— Mesures dominées par une capacité alternée d'ordre 2. (English summary) [Measures dominated by an alternating capacity of order 2] **94i:28001**
Hackenbroch, W. Conditionally multiplicative simultaneous extension of measures. **94a:28005**
Kadane, Joseph B. *see* **Wasserman, Larry, 94b:28003**
Kolchinskii, V. I. Metric entropy of compact sets. (Russian) **94b:28002**
König, Heinz New constructions related to inner and outer regularity of set functions. **94g:28004**
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Nazarov, È. M. On extensions of the problem of optimal partitioning of a measure space. (Russian) **94e:28002**
Parker, June M. Extreme points of a set of contents majorized by a submodular set function. **94a:28007**
Peškir, Goran The necessary and sufficient condition for the extension of a finite measure in the case of a two-element disjoint perturbation. (English and Serbo-Croatian summaries) **94b:28003**
Pfeffer, Washek F. (*with* Thomson, Brian S.) Measures defined by gages. (English summary) **94a:28008**
Plaza S., Sergio *see* **Bamón, Rodrigo, 94b:28001**
Rao, K. P. S. Bhaskara (*with* Shortt, R. M.) Common extensions for homomorphisms and group-valued charges. **94d:28003**
— *see also* **Basile, Achille; et al., 94g:28002**
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Shutz, Robert W. On regular and sigma-smooth two-valued measures and lattice generated topologies. (English summary) **94a:20009**
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Wu, Jang-Mei Null sets for doubling and dyadic doubling measures. (English summary) **94g:28005**

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Chen, Beifang (*with* Rota, Gian-Carlo) Totally invariant set functions of polynomial type. **94m:52010**
Dyckerhoff, Rainer (*with* Mosler, Karl) Stochastic dominance with nonadditive probabilities. (English summary) **94g:90007**
Filipczak, Tomasz A note on the system of complements of sets sparse at a point. (English and Polish summaries) **94m:26009**
Jonušauskas, A. Erweiterungssatz für die regulären Maße. (German and Lithuanian summaries) [Extension theorem for regular measures] **94d:28017**
Klimkin, V. M. (*with* Sribnaya, T. A.) Extension of a quasitriangular submeasure. (Russian) **94f:28003**
Molodtsov, D. A. ★ К общей теории абстрактного интервального интеграла. (Russian. Russian summary) [On a general theory of an abstract interval integral] **94a:28024**
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Ovchinnikov, P. G. Measures on Gudder and Marchand logics. (Russian) **94e:81020**
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Sribnaya, T. A. *see* **Klimkin, V. M., 94f:28003**

28A15 Abstract differentiation theory, differentiation of set functions [see also 26A24]

Maliszewski, Aleksander Products of derivatives of interval functions with continuous functions. (English summary) **94d:28004**
Omiadze, K. T. On the differentiability of absolutely continuous set functions. (Russian. English and Georgian summaries) **94m:28005**
Tišer, Jaroslav Differentiation of Gaussian measures. (*see* **94j:00016**)

Items with secondary classifications in 28A15

Păunescu, D. Notes on measures nets. (English summary) (*see* **94j:00025**)
Watson, Neil A. Superharmonic extensions, mean values and Riesz measures. (English summary) **94j:31002**
— Applications of geometric measure theory to the study of Gauss-Weierstrass and Poisson integrals. (English summary) **94k:31007**

28A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence

Brézis, Haïm Convergence in $\mathscr{D}'$ and in L^1 under strict convexity. **94m:28006**
Gompa, Raghu R. On the notion of measurability. (Russian summary) **94f:28005**
Hejduk, Jacek The convergence of multi-index sequences of Baire functions. (English and Polish summaries) **94j:28003**
Konovalenko, D. N. On divergence in category of sequences of linear operators. (English summary) **94m:28007**
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Ni, Wen Juan Notions of convergence in the space L_2. (Chinese. English and Chinese summaries) **94k:28005**
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Prasad, Damodar *see* **Yadav, Ram Keshwar Prasad; et al.**
Rosales, Edixon Continuity and differentiability in measure. (Spanish. English and Spanish summaries)
Soundararajan, T. Uniform convergence and integration. (English summary) **94m:28008**
Tiwari, Umesh Kumar *see* **Yadav, Ram Keshwar Prasad; et al.**
Wiśniewski, Andrzej The structure of measurable mappings on metric spaces. (English summary) **94k:28006**
Yadav, Ram Keshwar Prasad (*with* Tiwari, Umesh Kumar; Prasad, Damodar) Some propositions on measurable functions.

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Bernoussi, Benaissa Oscillations et compacité en mesure. [Oscillations and compactness in measure] **94k:28014**
Chichilnisky, Graciela The cone condition, properness, and extremely desirable commodities. (English summary) **94c:90015**
Clark, Stephen A. The valuation problem in arbitrage price theory. (English summary) **94g:90012**
Díaz Carrillo, Manuel (*with* Muñoz Rivas, Ma. Pilar) Finitely additive integration: integral extension with local convergence. **94m:28019**
Ferrer Villanueva, José R. (*with* López Pellicer, Manuel; Sánchez Ruiz, L. M.) Suprabarrelledness of $I_0^\infty(H,\mathscr{A})$ and measure theory. **94i:46007**
Grande, Zbigniew (*with* Natkaniec, Tomasz) On some topologies of O'Malley's type on the plane. **94c:54005**
Hackenbroch, W. Conditionally multiplicative simultaneous extension of measures. **94a:28005**
Kuczma, Marek On measurable functions with vanishing differences. (English summary) **94k:39059**
Łazarow, Ewa Topologies generated by the family of all $\mathscr{I}$-sparse sets. (English summary) **94m:26007**
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Losonczi, László Measurable solutions of a functional equation related to $(2,2)$-additive entropies of degree α. (English summary) **94b:39031**
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Taylor, Keith F. (*with* Wang, Xikui) A metric space associated with a probability space. (English summary) **94c:28002**
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— *see also* **Taylor, Keith F., 94c:28002**

28A25 Integration with respect to measures and other set functions

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Díaz Carrillo, Manuel (*with* Muñoz Rivas, Ma. Pilar) Finitely additive integration: integral extension with local convergence. **94m:28019**
El Kaabouchi, A. Points extrémaux du convexe des mesures dominées par une capacité alternée d'ordre 2. [Extremal points of the convex set of measures dominated by an alternating capacity of order 2] **94m:28004**
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Ostaszewski, Krzysztof Division space axiomatics. (English summary) **94j:26019**
Takeuchi, Yu (*with* Blanco, Liliana) Nonstandard representation of the Riesz theorem. (Spanish) **94g:46093**
Wheeden, Richard L. A characterization of some weighted norm inequalities for the fractional maximal function. (English summary) **94m:42044**
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28A33 Spaces of measures, convergence of measures [see also 46E27, 60Bxx]

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Steerneman, A. G. M. Inequalities for the r-metric. (English summary) **94a:28012**
Vincze, István *see* **Kafka, P.; et al., 94a:28011**
Xie, Han Sheng Helly's second theorem and its application in the computation of limits. (Chinese. English and Chinese summaries)
Zhang, Xing Zhou Weak convergence and the Schauder-Tikhonov fixed-point theorem on a set of probability measures. (Chinese. English summary)

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Connor, Jeff (*with* Swardson, Mary Anne) Strong integral summability and the Stone-Čech compactification of the half-line. (English summary) **94f:40007**
Kahane, Sylvain On the complexity of sums of Dirichlet measures. (English and French summaries) **94h:43003**
Mushtari, D. Kh. Topologies on the space of σ-additive cylindrical probabilities. (English summary) **94f:60005**
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28A35 Measures and integrals in product spaces

Grekas, S. On products of completion regular measures. (English summary) **94a:28013**
Johnson, Roy A. (*with* Wilczyński, Władysław) Finite products of Borel measures. **94a:28014**
Khaliullin, S. G. *see* **Mushtari, D. Kh., 94i:28002**
Mushtari, D. Kh. (*with* Khaliullin, S. G.) Linear spaces with probability measures, ultraproducts and contiguity. (Russian) **94i:28002**
Otáhal, Antonín Relative stationary probabilities. (English summary) **94c:28005**
Štěpán, Josef Simplicial measures and sets of uniqueness in the marginal problem. (English summary) **94m:28009**
Swartz, Charles Fubini's theorem via Mikusiński's characterization of the Lebesgue integral. (English summary) **94m:28010**
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Ylinen, Kari Representations of bimeasures. (English summary) **94c:28006**

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Bourgain, Jean (*with* Kahn, Jeffry N.; Kalai, Gil; Katznelson, Yitzhak; Linial, Nathan) The influence of variables in product spaces. (English summary) **94g:05091**
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Kalai, Gil *see* **Bourgain, Jean; et al., 94g:05091**
Katznelson, Yitzhak *see* **Bourgain, Jean; et al., 94g:05091**
Linial, Nathan *see* **Bourgain, Jean; et al., 94g:05091**
Maharam, Dorothy A "planar" representation for generalized transition kernels. (English summary) **94a:28015**
Schweizer, Berthold Thirty years of copulas. (English summary) **94c:60023**

28A50 Integration and disintegration of measures

Andersson, Leif M. Recursive construction of fractals. **94d:28005**
Maharam, Dorothy A "planar" representation for generalized transition kernels. (English summary) **94a:28015**
Zerakidze, Z. S. A family of measures admitting consistent estimates. (English summary) **94a:28016**

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Balibrea Gallego, Francisco (*with* Smítal, J.) A chaotic continuous map generates all probability distributions. (English summary) **94j:58099**
Edgar, G. A. (*with* Sucheston, Louis) ★ Stopping times and directed processes. **94a:60064**
Jensen, Eva Bjørn (*with* Kiêu, K.) A new integral geometric formula of the Blaschke-Petkantschin type. (English summary) **94g:52003**
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Mainieri, Ronnie On the equality of Hausdorff and box counting dimensions. (English summary) **94e:58083**
Saito, Hiroshi Global density theorem for a Federer measure. (English summary) **94a:28017**
Setti, Alberto G. Gaussian estimates for the heat kernel of the weighted Laplacian and fractal measures. (English summary) **94f:58124**
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28A51 Lifting theory [see also 46G15]

Burke, Maxim R. Liftings for noncomplete probability spaces. (English summary) (*see* **94m:54001**)
— Liftings for Lebesgue measure. (English summary) **94m:28011**
Macheras, N. D. (*with* Strauss, Werner) On various strong lifting properties for topological measure spaces. **94g:28006**
— (*with* Strauss, Werner) On the permanence of almost strong liftings. **94g:28007**
Strauss, Werner *see* **Macheras, N. D., 94g:28006** *and* **94g:28007**

Items with secondary classifications in 28A51

Burke, Maxim R. (*with* Shelah, Saharon) Linear liftings for noncomplete probability spaces. (English summary) **94m:03079**
Detlefsen, Michael E. (*with* Szymański, Andrzej) Category bases. (English summary) **94k:28001**
Macheras, N. D. (*with* Strauss, Werner) On the existence of strong liftings for locally convex topologies. **94e:46077**
Shelah, Saharon *see* **Burke, Maxim R., 94m:03079**
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28A60 Measures on Boolean rings, measure algebras [see also 54H10]

Biacino, Loredana Generated envelopes. **94h:28004**
Camacho, James, Jr. Realcompactification and repleteness of Wallman spaces. (English summary) **94g:28008**
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Rao, K. P. S. Bhaskara (*with* Candeloro, Domenico; Martellotti, Anna) $\mathbf{R}^n$-valued finitely additive measures admitting countably additive restrictions preserving the range. **94f:28006**
Rydzyńska, Ewa Differential calculus in probability Heyting algebras. **94m:28012**
Sherman, Glen Aldridge Measure extension for a piecewise invariant map. (English summary) **94g:28009**
Stratigos, P. D. Lattice measures and associated outer measures. (English summary) **94k:28007**

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Brendle, Jörg (*with* Judah, Haim) Perfect sets of random reals. (English summary) **94m:03082**
Connell, Roy On certain Wallman spaces. (English summary) **94j:28006**
van Douwen, Eric K. Finitely additive measures on N. (English summary) **94c:28004**
Gouweleeuw, José M. A generalization of Lyapounov's theorem. (English summary) **94k:28016**
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Lipecki, Zbigniew Components in vector lattices and extreme extensions of quasi-measures and measures. **94m:46064**

28A75 Length, area, volume, other geometric measure theory [see also 26B15, 49Q15]

Assouad, Patrice (*with* Quentin de Gromard, Thierry) Sur les recouvrements forts par des pseudo-boules. (English and French summaries) [Strong coverings by pseudoballs] **94g:28010**
Chen, Shi Rong The Minkowski content of a class of sets. (Chinese. English and Chinese summaries) **94k:28008**
David, Guy (*with* Semmes, Stephen) ★ Analysis of and on uniformly rectifiable sets. **94i:28003**
Edgar, G. A. Packing measure as a gauge variation. (English summary) **94k:28009**
Feyel, Denis (*with* de La Pradelle, Arnaud) Hausdorff measures on the Wiener space. (English summary) **94m:28013**
Ganguly, D. K. (*with* Ray, S.) A note on a generalised Cantor set C_λ $(0 < \lambda < 1)$. (English summary) **94g:28011**
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Martín, Miguel Ángel (*with* Mattila, Pertti) Hausdorff measures, Hölder continuous maps and self-similar fractals. **94c:28007**
Mattila, Pertti *see* **Martín, Miguel Ángel, 94c:28007**
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Saito, Hiroshi Global density theorem for a Federer measure. (English summary) **94a:28017**
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Alberti, Giovanni Rank one property for derivatives of functions with bounded variation. (English summary) **94g:49100**
Edgar, G. A. Fractal dimension of self-affine sets: some examples. **94a:28019**
Grünbaum, Branko (*with* Shephard, G. C.) Pick's theorem. **94j:52012**
Hajłasz, Piotr Change of variables formula under minimal assumptions. **94a:26027**
Jarník, Jiří (*with* Kurzweil, Jaroslav) Pfeffer integrability does not imply M_1-integrability. **94m:26013**
Konyagin, S. V. On the level sets of Lipschitz functions. (English summary) **94m:49060**
Kurzweil, Jaroslav *see* **Jarník, Jiří, 94m:26013**
Muñoz M., Eduardo (*with* Vera V., Jaime) On the continuity of limit capacity of central Cantor sets. (English summary) **94c:28011**
Pedregal, Pablo Jensen's inequality in the calculus of variations. (English summary) **94i:49032**
Pfeffer, Washek F. Lectures on geometric integration and the divergence theorem. (English summary) **94k:26018**
Setti, Alberto G. Gaussian estimates for the heat kernel of the weighted Laplacian and fractal measures. (English summary) **94f:58124**
Shephard, G. C. *see* **Grünbaum, Branko, 94j:52012**
Stanoyevitch, Alexander Arclength formulas in conformal mapping. **94d:30008**
Tverberg, Helge (*with* Vrećica, Siniša T.) On generalizations of Radon's theorem and the ham sandwich theorem. (English summary) **94d:52004**
Vera V., Jaime *see* **Muñoz M., Eduardo, 94c:28011**
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Watson, Neil A. Superharmonic extensions, mean values and Riesz measures. (English summary) **94j:31002**
— Applications of geometric measure theory to the study of Gauss-Weierstrass and Poisson integrals. (English summary) **94k:31007**
Xu, You The equivalence of packing dimension and metric dimension in Euclidean space. (English summary) **94j:28005**
Zykov, A. A. Rectification of sets in Euclidean spaces. (English summary) **94k:51021**

28A78 Hausdorff measures

Foran, James On the translates of a set which meet it in a set of positive measure. (English summary) **94i:28004**

Ganesa Moorthy, C. (*with* Vijaya, R.; Venkatachalapathy, P.) Hausdorff dimension of Cantor-like sets. **94a:28018**
Gu, Xiao Ping The Hausdorff dimension of self-similar sets under a pinching condition. (English summary) **94d:28006**
Kirchheim, Bernd Rectifiable metric spaces: local structure and regularity of the Hausdorff measure. (English summary) **94g:28013**
Ledrappier, François On the dimension of some graphs. (English summary) **94d:28007**
Morán, Manuel Distances between neighbour subsets of $\mathbf{R}^n$. **94f:28007**
— Dimension functions for fractal sets associated to series. (English summary) **94e:28003**
Pesin, Ya. B. On rigorous mathematical definitions of correlation dimension and generalized spectrum for dimensions. (English summary) **94d:28008**
Shereshevskii, M. A. Pointwise dimension of Bernoulli measures on Smale horseshoes. (Russian. Russian summary) **94c:28008**
Staiger, Ludwig Hausdorff dimension of constructively specified sets and applications to image processing. (*see* **94a:28001**)
Venkatachalapathy, P. *see* **Ganesa Moorthy, C.; et al., 94a:28018**
Vijaya, R. *see* **Ganesa Moorthy, C.; et al., 94a:28018**
Zähle, M. Fractional differentiation. (*see* **94a:28001**)

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Alberti, Giovanni (*with* Ambrosio, Luigi; Cannarsa, Piermarco) On the singularities of convex functions. (English summary) **94c:26017**
Ambrosio, Luigi *see* **Alberti, Giovanni; et al., 94c:26017**
Andersson, Leif M. Recursive construction of fractals. **94d:28005**
Bandt, Christoph (*with* Kuschel, Thomas) Self-similar sets. VIII. Average interior distance in some fractals. **94c:28010**
Campbell, L. Lorne Minimum relative entropy and Hausdorff dimension. (English summary) **94j:94007**
Cannarsa, Piermarco *see* **Alberti, Giovanni; et al., 94c:26017**
Coutinho, R. (*with* Lima, R.; Vilela Mendes, R.; Vaienti, Sandro) Logarithmic measures, subdimension and Lyapunov exponents of cantori. (English summary) **94a:58150**
Geronimo, Jeffrey S. *see* **King, J. F., 94c:58108**
Hofbauer, Franz Hausdorff dimension and pressure for piecewise monotonic maps of the interval. **94e:58079**
Hunt, J. C. R. *see* **Vassilicos, J. C., 94f:76049**
Kato, Kazuhisa On invariant sets for a family of quadratic mappings. **94c:58114**
King, J. F. (*with* Geronimo, Jeffrey S.) Singularity spectrum for recurrent IFS attractors. (English summary) **94c:58108**
Kuschel, Thomas *see* **Bandt, Christoph, 94c:28010**
Leonov, G. A. Estimates for the Hausdorff dimension of attractors. (Russian. English and Russian summaries) **94a:58119**
Lima, R. *see* **Coutinho, R.; et al., 94a:58150**
Martín, Miguel Ángel (*with* Mattila, Pertti) Hausdorff measures, Hölder continuous maps and self-similar fractals. **94c:28007**
Mattila, Pertti *see* **Martín, Miguel Ángel, 94c:28007**
Mendès France, Michel (*with* Tenenbaum, Gérald) Systèmes de points, diviseurs et structure fractale. (English and French summaries) [Systems of points, divisors and fractal structure] **94c:11072**
Moszyńska, Maria Lipschitz inverse and direct sequences. (English summary) **94m:54030**
Panzone, Pablo A. On the measure of self-similar sets. (English summary) **94m:28015**
Raith, Peter Continuity of the Hausdorff dimension for piecewise monotonic maps. (English summary) **94j:58103**
Rynne, Bryan P. Regular and ubiquitous systems, and $\mathscr{L}^s_\infty$-dense sequences. (English summary) **94c:11073**
Schief, Andreas Separation properties for self-similar sets. (English summary) **94k:28012**
Shima, Tadashi Lifschitz tails for random Schrödinger operators on nested fractals. **94h:60090**
Sun, Dao Chun The dimension of the boundary fractal of Dirichlet series. (English summary) **94m:30010**
Tenenbaum, Gérald *see* **Mendès France, Michel, 94c:11072**
Vaienti, Sandro *see* **Coutinho, R.; et al., 94a:58150**
Vassilicos, J. C. (*with* Hunt, J. C. R.) Fractal dimensions and spectra of interfaces with application to turbulence. **94f:76049**
Vilela Mendes, R. *see* **Coutinho, R.; et al., 94a:58150**
Yuan, Jin Chen The Hausdorff dimension of the graph of a nowhere differentiable continous function. (Chinese. English and Chinese summaries) **94d:26009**

28A80 Fractals [see also 58Fxx]

Azcan, H. *see* **Koçak, Şahin, 94j:28004**
Bandt, Christoph (*with* Retta, Teklehaimanot) Self-similar sets as inverse limits of finite topological spaces. **94g:28014**
— (*with* Retta, Teklehaimanot) Topological spaces admitting a unique fractal structure. (English summary) **94c:28009**
— (*with* Kuschel, Thomas) Self-similar sets. VIII. Average interior distance in some fractals. **94c:28010**
Behrends, E. Fraktale und Mathematik—eine elementare Einführung. [Fractals and mathematics—an elementary introduction] (*see* **94m:01001**)
Bressloff, Paul C. *see* **Stark, Jaroslav, (94i:00017)**
Chamizo, Fernando (*with* Córdoba, Antonio) The fractal dimension of a family of Riemann's graphs. (English and French summaries) **94h:28005**
Córdoba, Antonio *see* **Chamizo, Fernando, 94h:28005**
Deliu, Anca (*with* Wingren, Peter) The Takaga operator, Bernoulli sequences, smoothness conditions and fractal curves. (English summary) **94i:28005**
Demko, Stephen G. Approximation of measures by fractal generation techniques. (English summary) **94f:28008**
Dettmann, C. P. (*with* Frankel, N. E.) Structure factor of deterministic fractals with rotations. (English summary)
— (*with* Frankel, N. E.) Potential theory and analytic properties of self-similar fractal and multifractal distributions. (English summary) **94f:28009**
Dubuc, Serge (*with* Elqortobi, Abdelkader) The support function of an attractor. (English summary) **94h:28006**
Edgar, G. A. Fractal dimension of self-affine sets: some examples. **94a:28019**
Elqortobi, Abdelkader *see* **Dubuc, Serge, 94h:28006**
Frankel, N. E. *see* **Dettmann, C. P., 94f:28009**
Hunt, Brian R. (*with* Kan, Ittai; Yorke, James A.) When Cantor sets intersect thickly. **94f:28010**
Jaffard, Stéphane Formalisme multifractal pour les fonctions. (English and French summaries) [Multifractal formalism for functions] **94k:28010**
Jin, Ning Symmetric fractal sets on the plane. (Chinese. English and Chinese summaries)
Kahane, Jean-Pierre Fractals and random measures. **94d:28009**
Kan, Ittai *see* **Hunt, Brian R.; et al., 94f:28010**
Kharazishvili, A. B. *see* **Vil'chinskii, V. R., 94m:28016**
Koçak, Şahin (*with* Azcan, H.) Fractal dimensions of some sequences of real numbers. (English and Turkish summaries) **94j:28004**
Kumagai, Takashi Regularity, closedness and spectral dimensions of the Dirichlet forms on P.C.F. self-similar sets. **94i:28006**
Kuschel, Thomas Average interior distance on self-similar sets. (*see* **94a:28001**)
— *see also* **Bandt, Christoph, 94c:28010**
Lewellen, Gary B. Self-similarity. (English summary) **94i:28007**
Li, Hou Qiang *see* **Wang, Fu Quan**
Makarov, K. A. Asymptotics of the Fourier transform of self-affine measures. (Russian) **94m:28014**
Micchelli, Charles A. Expansions for integrals relative to invariant measures determined by contractive affine maps. (English summary) **94f:28011**
Muñoz M., Eduardo (*with* Vera V., Jaime) On the continuity of limit capacity of central Cantor sets. (English summary) **94c:28011**
Nigam, S. D. Generalized triangular Sierpiński gasket. (English summary)
Panzone, Pablo A. On the measure of self-similar sets. (English summary) **94m:28015**
Patzschke, N. (*with* Zähle, M.) Self-similar random measures are locally scale invariant. (English summary) **94k:28011**
Pratsevityi, N. V. *see* **Torbin, G. M., 94f:28012**
Ransford, T. J. Variation of Hausdorff dimension of Julia sets. (English summary) **94g:28015**
Retta, Teklehaimanot *see* **Bandt, Christoph, 94c:28009** *and* **94g:28014**
Rudnik, Krzysztof Self-similar metric inverse limits of invariant geometric inverse sequences. (English summary) **94d:28010**
Schief, Andreas Separation properties for self-similar sets. (English summary) **94k:28012**
Stark, Jaroslav (*with* Bressloff, Paul C.) Iterated function systems and their applications. (*see* **94i:00017**)
Torbin, G. M. (*with* Pratsevityi, N. V.) Random variables with independent Q^*-signs. (Russian. Russian summary) **94f:28012**
Vaz, Jayme, Jr. Towards a general theory of convolutive sets (with applications to fractals). (English summary) **94k:28013**
Vera V., Jaime *see* **Muñoz M., Eduardo, 94c:28011**
Vil'chinskii, V. R. (*with* Kharazishvili, A. B.) Translations of measurable sets and of sets having the Baire property. (Russian. English and Georgian summaries) **94m:28016**
Wang, Fu Quan (*with* Li, Hou Qiang) A class of fractal sets and its characterization. (Chinese. English and Chinese summaries)
Wingren, Peter *see* **Deliu, Anca, 94i:28005**
Xu, You The equivalence of packing dimension and metric dimension in Euclidean space. (English summary) **94j:28005**
Yorke, James A. *see* **Hunt, Brian R.; et al., 94f:28010**
Zähle, M. *see* **Patzschke, N., 94k:28011**
Zheng, Wei Xing Self-similar functions on local fields. (Chinese. Chinese summary) **94f:28013**

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Alligood, Kathleen T. (*with* Yorke, James A.) Accessible saddles on fractal basin boundaries. (English summary) **94b:58080**
Baier, Gerold *see* **Klein, Michael, 94a:58131**
Bamón, Rodrigo (*with* Plaza S., Sergio) Cantor sets, numerical invariants and Perron-Frobenius theory. (English summary) **94b:28001**
Barbé, André M. On a class of fractal matrices. I. Excess-matrices and their self-similar properties. (English summary) **94c:58093**
Barlow, Martin T. (*with* Bass, Richard F.) Coupling and Harnack inequalities for Sierpiński carpets. (English summary) **94a:60011**
Barnsley, Michael F. ★ Fractals everywhere. **94h:58101**
Bass, Richard F. *see* **Barlow, Martin T., 94a:60011**
Bothe, H. G. The Hausdorff dimension of certain attractors. **94f:58084**
Coutinho, R. (*with* Lima, R.; Vilela Mendes, R.; Vaienti, Sandro) Logarithmic measures, subdimension and Lyapunov exponents of cantori. (English summary) **94a:58150**
Devaney, Robert L. ★ A first course in chaotic dynamical systems. (English summary) **94a:58124**
Dubuc, Serge (*with* Nekka, Fahima) General interpolation schemes for the generation of irregular surfaces. (English summary) **94h:65011**
Edgar, G. A. Packing measure as a gauge variation. (English summary) **94k:28009**
El Naschie, M. S. On turbulence and complex dynamic in a four-dimensional Peano-Hilbert space. (English summary) **94a:58128**
Fisher, Albert M. Integer Cantor sets and an order-two ergodic theorem. (English summary) **94h:28014**
Geronimo, Jeffrey S. *see* **King, J. F., 94c:58108**
Ghez, Jean-Michel (*with* Vaienti, Sandro) Rigorous wavelet analysis for multifractal sets. (English summary) **94a:42048**
Gummelt, Petra Self-similar sets and tilings. (English summary) **94h:52042**
Hazewinkel, Michiel Wavelets understand fractals. (English summary) **94g:58140**
Hubbard, John H. Local connnectivity of Julia sets and bifurcation loci: three theorems of J.-C. Yoccoz. **94c:58172**
Hudson, Steven M. (*with* Leckband, Mark) Hardy's inequality and fractal measures. **94e:42020**

Hunt, J. C. R. *see* **Vassilicos, J. C., 94f:76049**
Jorgensen, Palle E. T. (*with* Pedersen, Steen) Harmonic analysis of fractal measures induced by representations of a certain C^*-algebra. (English summary) **94b:46094**
Keller, Karsten The abstract Mandelbrot set—an atlas of abstract Julia sets. **94g:58186**
Khoshnevisan, Davar A discrete fractal in Z^1_+. (English summary) **94d:60109**
King, J. F. (*with* Geronimo, Jeffrey S.) Singularity spectrum for recurrent IFS attractors. (English summary) **94c:58108**
Klein, Michael (*with* Baier, Gerold) Fractal structures of spheroidal chaotic attractors. (English summary) **94a:58131**
Lasota, Andrzej (*with* Mackey, Michael C.) ★ Chaos, fractals, and noise. (English summary) **94j:58102**
Lau, Ka-Sing (*with* Wang, Jianrong) Mean quadratic variations and Fourier asymptotics of self-similar measures. (English summary) **94g:42018**
Leckband, Mark *see* **Hudson, Steven M., 94e:42020**
Lima, R. *see* **Coutinho, R.; et al., 94a:58150**
Lindstrøm, Tom Nonstandard analysis, iterated function systems, and Brownian motion on fractals. **94k:60124**
Mackey, Michael C. *see* **Lasota, Andrzej, 94j:58102**
Mandelbrot, Benoit B. Opinions. **94d:00008**
Mendès France, Michel (*with* Tenenbaum, Gérald) Systèmes de points, diviseurs et structure fractale. (English and French summaries) [Systems of points, divisors and fractal structure] **94c:11072**
Moon, Francis C. ★ Chaotic and fractal dynamics. **94i:00008**
Morán, Manuel Dimension functions for fractal sets associated to series. (English summary) **94e:28003**
Nekka, Fahima *see* **Dubuc, Serge, 94h:65011**
Pedersen, Steen *see* **Jorgensen, Palle E. T., 94b:46094**
Pesin, Ya. B. On rigorous mathematical definitions of correlation dimension and generalized spectrum for dimensions. (English summary) **94d:28008**
Piacquadio Losada, M. Fractal boundaries in partial differential equations and in physics. (English summary) **94d:58103**
Pincus, Steve Singular stationary measures are not always fractal. (English summary) **94j:60128**
Plaza S., Sergio *see* **Bamón, Rodrigo, 94b:28001**
Reiter, Ashley Melia Determining the dimension of fractals generated by Pascal's triangle. **94b:05011**
(Rising, Hawley, III) *see* **Barnsley, Michael F., 94h:58101**
Scheffer, Vladimir An inviscid flow with compact support in space-time. (English summary) **94h:35215**
Shereshevskii, M. A. Pointwise dimension of Bernoulli measures on Smale horseshoes. (Russian. Russian summary) **94c:28008**
Shima, Tadashi Lifschitz tails for random Schrödinger operators on nested fractals. **94h:60090**
Simon, Károly Hausdorff dimension for noninvertible maps. (English summary) **94c:58146**
Staiger, Ludwig Hausdorff dimension of constructively specified sets and applications to image processing. (*see* **94a:28001**)
Steeb, Willi-Hans ★ Chaos and fractals. (English summary) **94g:58002**
Strichartz, Robert S. Self-similarity on nilpotent Lie groups. (English summary) **94e:43011**
Sun, Dao Chun The dimension of the boundary fractal of Dirichlet series. (English summary) **94m:30010**
Takahashi, Satoshi Self-similarity of linear cellular automata. **94b:58058**
Tenenbaum, Gérald *see* **Mendès France, Michel, 94c:11072**
Vaienti, Sandro *see* **Ghez, Jean-Michel, 94a:42048** *and* **Coutinho, R.; et al., 94a:58150**
Vassilicos, J. C. (*with* Hunt, J. C. R.) Fractal dimensions and spectra of interfaces with application to turbulence. **94f:76049**
Vilela Mendes, R. *see* **Coutinho, R.; et al., 94a:58150**
Wang, Jianrong *see* **Lau, Ka-Sing, 94g:42018**
(van Wyk, Michaël Antonie) *see* **Steeb, Willi-Hans, 94g:58002**
Yorke, James A. *see* **Alligood, Kathleen T., 94b:58080**

28A99 None of the above, but in this section

Forelli, Frank The theorem of F. and M. Riesz for unbounded measures. (English summary) **94f:28014**
Haase, Hermann A survey on the dimension of measures. (English summary) **94e:28004**
Laczkovich, M. Paradoxical decompositions using Lipschitz functions. **94d:28011**

Items with secondary classifications in 28A99

Brown, Gavin (*with* Yin, Qing He) Some metric properties of sum sets. **94j:11072**
Hudson, Steven M. A marriage theorem with Lebesgue measure. **94h:04004**
Vorob'ev, O. Yu. ★ Сет-суммирование. (Russian. English and Russian summaries) [Set summation] **94f:04002**
Yin, Qing He *see* **Brown, Gavin, 94j:11072**

28Bxx Set functions, measures and integrals with values in abstract spaces

28B05 Vector-valued set functions, measures and integrals [see also 46G10]

Ballvé, Ma. E. Change-of-variable theorems in bilinear integration. (Spanish) **94d:28012**
— (*with* Jiménez Guerra, P.) On the integration in convergence spaces. (English and Italian summaries) **94c:28012**
Bernoussi, Benaissa Oscillations et compacité en mesure. [Oscillations and compactness in measure] **94k:28014**
Boccuto, Antonio (*with* Candeloro, Domenico) Extensions and uniqueness theorems for invariant measures. **94f:28015**
Candeloro, Domenico (*with* Martellotti, Anna) Radon-Nikodým theorems for vector-valued finitely additive measures. (English and Italian summaries) **94d:28013**
— *see also* **Boccuto, Antonio, 94f:28015**
De Lucia, Paolo (*with* Morales, Pedro) Noncommutative decomposition theorems in Riesz spaces. (English summary) **94b:28004**
Emmanuele, Giovanni Precompactness in the space of Pettis integrable functions. **94k:28015**
Ghosh, Sankar Equiconvergence of conditional expectations of Bochner-integrable functions. (English summary) **94a:28020**
Gouweleeuw, José M. A generalization of Lyapounov's theorem. (English summary) **94k:28016**
Halilović, Armin Calculus for the multilinear Stieltjes integral. (English and Serbo-Croatian summaries) **94b:28007**
Jiménez Guerra, P. *see* **Ballvé, Ma. E., 94c:28012**
Kadets, V. M. (*with* Schechtman, Gideon) Lyapunov's theorem for l_p-valued measures. (Russian. Russian summary) **94a:28021**
Lipovan, O. Integration in random normed spaces. II. (Romanian summary)
Martellotti, Anna *see* **Candeloro, Domenico, 94d:28013**
Morales, Pedro *see* **De Lucia, Paolo, 94b:28004**
Musial, Kazimierz A Radon-Nikodým theorem for the Bartle-Dunford-Schwartz integral. **94g:28016**
Okada, Susumu (*with* Ricker, Werner J.) Nonweak compactness of the integration map for vector measures. (English summary) **94d:28014**
Ricker, Werner J. *see* **Okada, Susumu, 94d:28014**
Schechtman, Gideon *see* **Kadets, V. M., 94a:28021**
Schmidt, Klaus D. (*with* Waldschaks, Gerd) Common extensions of order bounded vector measures. (English summary) **94a:28022**
Waldschaks, Gerd *see* **Schmidt, Klaus D., 94a:28022**
Wang, Chong Hu Riemann integration in some Banach spaces. (Chinese summary) **94k:28017**
Wang, Han Xing Two classes of vector measures on a product space. (Chinese. English and Chinese summaries)

Items with secondary classifications in 28B05

Benabdellah, Houcine Extrémalité, stricte convexité et convergence dans L^1_E. [Extremality, strict convexity and convergence in L^1_E] **94c:46052**
Bru, Bernard (*with* Heinich, H.; Lootgieter, J.-C.) Martingales conditionnelles. (English summary) [Conditional martingales] **94a:60063**
Cao, Sergio S. Henstock lemma in finite-dimensional Banach spaces. (English summary) **94c:26012**
Chen, Bing *see* **Xue, Xiao Ping**
Dilworth, S. J. (*with* Girardi, Maria) Bochner vs. Pettis norm: examples and results. (English summary) **94d:46040**
Fan, Ying *see* **Ma, Ming; et al.**
Fremlin, David H. (*with* Mendoza, José) On the integration of vector-valued functions. **94k:46083**
Girardi, Maria *see* **Dilworth, S. J., 94d:46040**
Heinich, H. *see* **Bru, Bernard; et al., 94a:60063**
Hill, Theodore P. Partitioning inequalities in probability and statistics. (English summary) **94c:60026**
Hu, Hai Ping *see* **Ma, Ming; et al.**
Jefferies, Brian R. F. (*with* Okada, Susumu) Pettis integrals and singular integral operators. **94m:47103**
— (*with* Ricker, Werner J.) Integration with respect to vector valued Radon polymeasures. (English summary) **94k:47027**
Kadets, V. M. (*with* Popov, M. M.) On the Liapunov convexity theorem with applications to sign-embeddings. (English and Ukrainian summaries) **94d:46050**
Khan, Liaqat Ali Integration of vector-valued continuous functions and the Riesz representation theorem. (English summary) **94k:46071**
Lee, Peng Yee *see* **Rey, Reynaldo M., 94k:46072**
Liu, Yain Kui (*with* Zhang, Guang Quan) Aumann fuzzy integrals of set-valued functions. (English summary)
Lootgieter, J.-C. *see* **Bru, Bernard; et al., 94a:60063**
Ma, Ming (*with* Hu, Hai Ping; Fan, Ying) Some notes on B-valued fuzzy measures. (Chinese. English and Chinese summaries)
Mandrekar, V. (*with* Richard, Philip H.) Factorization through Hilbert space and the dilation of $L(X, Y)$-valued measures. (English summary) **94m:60008**
Mendoza, José *see* **Fremlin, David H., 94k:46083**
Musial, Kazimierz Topics in the theory of Pettis integration. **94k:46084**
Okada, Susumu *see* **Jefferies, Brian R. F., 94m:47103**
Pascoa, Mario Rui Approximate equilibrium in pure strategies for nonatomic games. (English summary) **94c:90018**
Popov, M. M. *see* **Kadets, V. M., 94d:46050**
Puglisi, Mario A. (*with* Solimini, Sergio) Measurability in Archimedean Riesz spaces. (Italian. English summary) **94k:46016**
Rey, Reynaldo M. (*with* Lee, Peng Yee) A representation theorem for the space of Henstock-Bochner integrable functions. (English summary) **94k:46072**
Richard, Philip H. *see* **Mandrekar, V., 94m:60008**
Ricker, Werner J. *see* **Jefferies, Brian R. F., 94k:47027**
Rybakov, V. I. Functionals that preserve the resultant. (Russian. Russian summary) **94k:46085**
Solimini, Sergio *see* **Puglisi, Mario A., 94k:46016**
Száz, Árpád The fundamental theorem of calculus in an abstract setting. (English summary) **94m:26017**
Xue, Xiao Ping (*with* Chen, Bing) Some properties of the Pettis-Aumann integral. (Chinese)
Zhang, Chuan Yi Integration of vector-valued pseudo-almost periodic functions. (English summary) **94m:43010**
Zhang, Guang Quan *see* **Liu, Yain Kui**

28B10 Group- or semigroup-valued set functions, measures and integrals

Fleischer, I. Limit interchange for semigroup valued integrals.
Rangaswamy, K. M. (*with* Reid, J. D.) Common extensions of finitely additive measures and a characterization of cotorsion abelian groups. (English summary) **94d:28015**
Reid, J. D. *see* **Rangaswamy, K. M., 94d:28015**
Riečan, Beloslav On operator valued measures in lattice ordered groups. **94k:28018**

Items with secondary classifications in 28B10

Basile, Achille Finitely additive correspondences. (English summary) **94i:28009**
Boccuto, Antonio (*with* Candeloro, Domenico) Extensions and uniqueness theorems for invariant measures. **94f:28015**
Candeloro, Domenico *see* **Boccuto, Antonio, 94f:28015**
Klimkin, V. M. Some properties of regular set functions. (Russian. Russian summary) **94a:28026**
Klir, George J. *see* **Wang, Zhen Yuan, 94f:28030**
Navara, Mirko An orthomodular lattice admitting no group-valued measure. (English summary) **94k:06007**
Rao, K. P. S. Bhaskara (*with* Shortt, R. M.) Common extensions for homomorphisms and group-valued charges. **94d:28003**
Shortt, R. M. *see* **Rao, K. P. S. Bhaskara, 94d:28003**
Wang, Zhen Yuan (*with* Klir, George J.) ★ Fuzzy measure theory. **94f:28030**
Wehrung, Friedrich Metric properties of positively ordered monoids. (English summary) **94g:06025**

28B15 Set functions, measures and integrals with values in ordered spaces

De Lucia, Paolo (*with* Dvurečenskij, Anatolij) Decompositions of Riesz space-valued measures on orthomodular posets. (English summary) **94k:28019**
Dvurečenskij, Anatolij *see* **De Lucia, Paolo, 94k:28019**
Riečan, Beloslav (*with* Vrábelová, Marta) On integration with respect to operator valued measures in Riesz spaces. (English summary) **94i:28008**
Vrábelová, Marta *see* **Riečan, Beloslav, 94i:28008**

28B20 Set-valued set functions and measures; integration of set-valued functions; measurable selections [see also 26E25, 54C60, 54C65, 90A14]

Basile, Achille Finitely additive correspondences. (English summary) **94i:28009**
Cellina, Arrigo (*with* Colombo, Rinaldo M.) On the representation of measurable set valued maps through selections. **94a:28023**
Chen, Bing *see* **Xue, Xiao Ping**
Colombo, Rinaldo M. *see* **Cellina, Arrigo, 94a:28023**
Lipovan, O. The Orlicz-Pettis type theorems for the multivalued measures. (English summary) (*see* **94j:00025**)
— On the Δ-additive multivalued set functions. (English summary) (*see* **94j:00025**)
Nikol'skiĭ, M. S. On absolutely continuous multivalued mappings. (Russian. Russian summary) **94d:28016**
Papageorgiou, Nikolaos S. Radon-Nikodým theorems for multimeasures and transition multimeasures. (Russian summary) **94f:28016**
— On the properties of multimeasures with values in a Banach space. (English summary) **94f:28017**
— On Fatou's lemma and parametric integrals for set-valued functions. (English summary) **94m:28017**
Precupanu, Anca-Maria Some properties of K-triangular multivalued set functions.
Spakowski, Andrzej (*with* Urbaniec, Piotr) On measurable multifunctions in countably separated spaces. (English summary) **94k:28020**
Urbaniec, Piotr *see* **Spakowski, Andrzej, 94k:28020**
Wang, Zi Xiao (*with* Zhang, De Li) The countable additivity of set-valued integrals and F-valued integrals. (English and Chinese summaries) **94g:28017**
Xue, Xiao Ping (*with* Chen, Bing) Some properties of the Pettis-Aumann integral. (Chinese)
Zhang, De Li *see* **Wang, Zi Xiao, 94g:28017**

Items with secondary classifications in 28B20

Castaing, Charles (*with* Ezzaki, F.) Variational inequalities for integrands martingales and additive random sequences. (English summary) **94g:60089**
— Méthode de compacité et de décomposition. Applications: minimisation, convergence des martingales, lemma de Fatou multivoque. (English summary) [Compactness and decomposition method. Applications: minimization, convergence of martingales, a multivalued Fatou lemma] **94k:46069**
Chabi, E. (*with* Michaille, G.) Random Dirichlet problem: scalar Darcy's law. (English summary) **94d:35175**
Dal Maso, Gianni (*with* Defranceschi, Anneliese; Vitali, Enrico) Integral representation for a class of C^1-convex functionals. (English summary) **94k:49044**
Defranceschi, Anneliese *see* **Dal Maso, Gianni; et al., 94k:49044**
Ezzaki, F. *see* **Castaing, Charles, 94g:60089**
Kasperski, Andrzej Approximation of elements of the spaces X_p^1 and X_p by nonlinear, singular kernels. (English summary) **94e:46015**
Michaille, G. *see* **Chabi, E., 94d:35175**
Molchanov, I. S. On regularly varying multivalued functions. **94i:60017**
Papageorgiou, Nikolaos S. Convergence theorems for set-valued conditional expectations. (English summary) **94f:60067**
Pascoa, Mario Rui Approximate equilibrium in pure strategies for nonatomic games. (English summary) **94c:90018**
Vitali, Enrico *see* **Dal Maso, Gianni; et al., 94k:49044**

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Lipovan, O. Integration in random normed spaces. I. (Romanian summary) (*see* **94j:00024**)
Molodtsov, D. A. ★ К общей теории абстрактного интервального интеграла. (Russian. Russian summary) [On a general theory of an abstract interval integral] **94a:28024**

Items with secondary classifications in 28B99

Gompa, Raghu R. On the notion of measurability. (Russian summary) **94f:28005**

28Cxx Set functions and measures on spaces with additional structure [see also 46G12, 58C35, 58D20]

28C05 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.), representing set functions and measures

Adamski, Wolfgang An integral representation theorem for positive bilinear forms. (English and Serbo-Croatian summaries) **94m:28018**
Aquaro, Giovanni Daniell integrals and integration with respect to positive Radon measures on locally compact spaces. (Italian) **94i:28010**
Díaz Carrillo, Manuel (*with* Muñoz Rivas, Ma. Pilar) Finitely additive integration: integral extension with local convergence. **94m:28019**
Fernández Novoa, J. Are diffused, Radon measures nonatomic? (English summary) **94g:28018**
Kõnig, Heinz Daniell-Stone integration without the lattice condition and its application to uniform algebras. **94f:28018**
Lebedev, A. A. Monotone sublinear dominable functionals on a space of measurable functions. (Russian. Russian summary) **94c:28013**
Muñoz Rivas, Ma. Pilar *see* **Díaz Carrillo, Manuel, 94m:28019**
Panchapagesan, T. V. On complex Radon measures. I. **94c:28014**
— On complex Radon measures. II. **94i:28011**

Items with secondary classifications in 28C05

Miyadera, Ryohei Characterization of conditional expectations for M-space-valued functions. **94j:60012**
Qi, Ming (*with* Shi, Dong He) The representation of Radon probability measures by Loeb measures on compact perfectly normal T_2 spaces. (Chinese. English and Chinese summaries) **94k:28035**
Shi, Dong He *see* **Qi, Ming, 94k:28035**

28C10 Set functions and measures on topological groups, Haar measures, invariant measures [see also 22Axx, 43A05]

Kirtadze, A. P. (*with* Pantsulaya, G. R.) Invariant measures in the space $\mathbf{R}^N$. (Russian. English and Georgian summaries) **94c:28015**
Pantsulaya, G. R. *see* **Kirtadze, A. P., 94c:28015**

Items with secondary classifications in 28C10

Bandt, Christoph (*with* Retta, Teklehaimanot) Topological spaces admitting a unique fractal structure. (English summary) **94c:28009**
Charbonnel, Jean-Yves Opérateurs différentiels et mesures invariantes. [Differential operators and invariant measures] **94k:17017**
Guerrero, Berenice Integral geometry of the action of ST(3) on the space E^3. (English summary) **94h:53097**
Khan, Abdul Rahim (*with* Khan, S. H.) Principle of equicontinuity for topological groups. (English and Serbo-Croatian summaries) **94b:54104**
Khan, S. H. *see* **Khan, Abdul Rahim, 94b:54104**
Omiadze, K. T. On the differentiability of absolutely continuous set functions. (Russian. English and Georgian summaries) **94m:28005**
Penconek, Marcin (*with* Zakrzewski, Piotr) The existence of nonmeasurable sets for invariant measures. (English summary) **94h:04003**
Rao, M. M. Exact evaluation of conditional expectations in the Kolmogorov model. (English summary) **94j:60003**
Retta, Teklehaimanot *see* **Bandt, Christoph, 94c:28009**
Rudin, Walter Autohomeomorphisms of compact groups. (English summary) **94j:22004**
Scherbakov, V. V. Full-space exponential convergence for Itô stochastic partial differential equations. **94j:81129**
Schoissengeier, Johannes Change of variables in a multiple integral for local fields. (English summary) **94b:12003**
Wijsman, Robert A. ★ Invariant measures on groups and their use in statistics. **94m:62006**
Zakrzewski, Piotr *see* **Penconek, Marcin, 94h:04003**

28C15 Set functions and measures on topological spaces (regularity of measures, etc.)

van Casteren, Jan A. Strictly positive Radon measures. **94m:28020**
Connell, Roy On certain Wallman spaces. (English summary) **94j:28006**
Gale, Sherry L. Measure-compact spaces. **94a:28025**
Haase, Hermann A note on open-interval measures. (English summary) **94c:28016**
Jonušauskas, A. Erweiterungssatz für die regulären Maße. (German and Lithuanian summaries) [Extension theorem for regular measures] **94d:28017**
Klimkin, V. M. Some properties of regular set functions. (Russian. Russian summary) **94a:28026**
— (*with* Svistula, M. G.) Uniform boundedness of a family of weakly regular nonadditive set functions. II. (Russian) **94k:28021**

de María, José L. (*with* Rodríguez-Salinas, Baltasar) On measurable sets of a τ-additive measure. (English summary) **94e:28005**
— (*with* Rodríguez-Salinas, Baltasar) On measures on σ-metrizable spaces. (English summary) **94k:28022**
Rodríguez-Salinas, Baltasar *see* **de María, José L., 94e:28005** *and* **94k:28022**
Svistula, M. G. *see* **Klimkin, V. M., 94k:28021**
Yallaoui, el-Bachir On normal and strongly normal lattices. (English summary) **94a:28027**
— Special measures and repleteness. (English summary) **94m:28021**

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Adamski, Wolfgang On extremal extensions of regular contents and measures. (English summary) **94j:28002**
Camacho, James, Jr. Realcompactification and repleteness of Wallman spaces. (English summary) **94g:28008**
Chan, Jack-Kang Measures on coallocation and normal lattices. (English summary) **94f:28004**
Džamonja, Mirna (*with* Kunen, Kenneth) Measures on compact HS spaces. (English summary) **94h:54047**
Fernández Novoa, J. Are diffused, Radon measures nonatomic? (English summary) **94g:28018**
Hernández, Salvador Positive linear functionals on spaces of continuous functions. **94d:46027**
Hertzlinger, Joseph Measure-theoretic characterizations of hereditarily-normal spaces. (English summary) **94b:54066**
Jefferies, Brian R. F. (*with* Ricker, Werner J.) Integration with respect to vector valued Radon polymeasures. (English summary) **94k:47027**
Kundu, Subiman (*with* Okuyama, Akihiro) Complete duals of $C^*(X)$. (English summary) **94g:46027**
Kunen, Kenneth *see* **Džamonja, Mirna, 94h:54047**
de María, José L. (*with* Rodríguez-Salinas, Baltasar) Banach spaces which are Radon spaces with the weak topology. (English summary) **94m:46032**
Okuyama, Akihiro *see* **Kundu, Subiman, 94g:46027**
Ricker, Werner J. *see* **Jefferies, Brian R. F., 94k:47027**
Rodríguez-Salinas, Baltasar *see* **de María, José L., 94m:46032**
Rubinshtein, G. Sh. Problems in the optimization of k-cyclic mixings and families of normalized cones generated by them. (Russian. Russian summary) **94f:90056**
Shutz, Robert W. On regular and sigma-smooth two-valued measures and lattice generated topologies. (English summary) **94a:28009**
Stratigos, P. D. Lattice measures and associated outer measures. (English summary) **94k:28007**

28C20 Set functions and measures and integrals in infinite-dimensional spaces (Wiener measure, Gaussian measure, etc.) [see also 46G12, 58C35, 58D20, 60B11]

Ahn, Jae Moon A note on Feynman integrals on abstract Wiener space. (Korean summary) **94k:28023**
Brüning, Erwin A. K. Uniqueness in moment-problems over nuclear spaces and weak convergence of probability measures. (English summary) **94k:28024**
Chang, Seung Jun (*with* Chung, Dong Myung) A class of conditional Wiener integrals. **94e:28006**
Chung, Dong Myung (*with* Park, Chull; Skoug, David) Generalized Feynman integrals via conditional Feynman integrals. **94h:28008**
— *see also* **Chang, Seung Jun, 94e:28006**
Daletskiĭ, Yu. L. (*with* Steblovskaya, V. R.) Smooth measures: absolute continuity, stochastic integrals, variational problems. **94d:28018**
Egorov, A. D. (*with* Sobolevskiĭ, P. I.; Yanovich, L. A.) ★ Functional integrals: approximate evaluation and applications. (English summary) **94g:28019**
Feyel, Denis (*with* de La Pradelle, Arnaud) Harmonic analysis in infinite dimension. (English summary) **94m:28022**
Gallamov, M. M. Wiener measures and some problems of approximation in Banach spaces. (Russian. English summary) **94c:28017**
Johnson, Gerald W. (*with* Kallianpur, G.) The analytic Feynman integral of the natural extension of pth homogeneous chaos. **94k:28025**
Kallianpur, G. *see* **Johnson, Gerald W., 94k:28025**
Khafizov, M. U. The derivative of a measure has unbounded variation. (Russian) **94k:28026**
(Korneenko, N. M.) *see* **Egorov, A. D.; et al., 94g:28019**
de La Pradelle, Arnaud *see* **Feyel, Denis, 94m:28022**
Park, Chull (*with* Skoug, David) An operator-valued Yeh-Wiener integral and a Kac-Feynman Wiener integral equation. (English summary) **94h:28009**
— *see also* **Chung, Dong Myung; et al., 94h:28008**
Ren, Jia Gang Analytic functionals on the Wiener space. (English summary) **94a:28028**
Skoug, David *see* **Chung, Dong Myung; et al., 94h:28008** *and* **Park, Chull, 94h:28009**
Sobolevskiĭ, P. I. *see* **Egorov, A. D.; et al., 94g:28019**
Steblovskaya, V. R. *see* **Daletskiĭ, Yu. L., 94d:28018**
Yanovich, L. A. *see* **Egorov, A. D.; et al., 94g:28019**

Items with secondary classifications in 28C20

Albeverio, Sergio (*with* Brzeźniak, Zdzisław) Finite-dimensional approximation approach to oscillatory integrals and stationary phase in infinite dimensions. (English summary) **94g:58031**
Brzeźniak, Zdzisław *see* **Albeverio, Sergio, 94g:58031**
Calisto, H. (*with* Cerda, E.; Tirapegui, E.) Weak noise expansions through functional integrals for colored noise. (English summary) **94e:82078**
— (*with* Tirapegui, E.) Ω-expansion of van Kampen through functional integrals. (English summary) **94f:82055**
Capiński, Marek (*with* Cutland, Nigel J.) The Euler equation: a uniform nonstandard construction of a global flow, invariant measures and statistical solutions. (English summary) **94k:03083**
Cerda, E. *see* **Calisto, H.; et al., 94e:82078**
Ciesielski, Zbigniew Orlicz spaces, spline systems, and Brownian motion. (English summary) **94h:41017**
Cutland, Nigel J. *see* **Capiński, Marek, 94k:03083**
Dặng Hùng Thắng Vector symmetric random measures and random integrals. **94d:46051**
De Santis, Alberto (*with* Gandolfi, Alberto; Germani, Alfredo; Tardelli, P.) Polynomial approximation for a class of physical random variables. **94b:60010**
Fang, Shi Zan Quelques résultats d'entropie sur l'espace de Wiener. (English summary) [Some results on entropy in Wiener space] **94m:60110**
Feyel, Denis (*with* de La Pradelle, Arnaud) Hausdorff measures on the Wiener space. (English summary) **94m:28013**
Flytzanis, E. Linear invariance of Gaussian measures in Hilbert spaces. (*see* **94j:60001**)
Gandolfi, Alberto *see* **De Santis, Alberto; et al., 94b:60010**
Germani, Alfredo *see* **De Santis, Alberto; et al., 94b:60010**
Johnson, Gerald W. (*with* Kallianpur, G.) Homogeneous chaos, p-forms, scaling and the Feynman integral. **94f:60056**
Kallianpur, G. *see* **Johnson, Gerald W., 94f:60056**
Khaliullin, S. G. *see* **Mushtari, D. Kh., 94i:28002**
Kondracki, Witold (*with* Kozak, Michał) An analogue of the Minlos theorem in the case of the full Laplace transform of a measure. (English summary) **94a:46052**
Kozak, Michał *see* **Kondracki, Witold, 94a:46052**
de La Pradelle, Arnaud *see* **Feyel, Denis, 94m:28013**
Lescot, Paul Désintégration de la mesure de Wiener sous certaines fonctionnelles dégénérées. (English and French summaries) [Disintegration of the Wiener measure under certain degenerate functionals] **94f:60076**
Maiorov, V. E. Kolmogorov (n, δ)-widths of spaces of smooth functions. (Russian. Russian summary) **94g:41047**
Malyutin, V. B. Some relations and their application to the calculation of path integrals. (Russian. English and Russian summaries) **94b:65035**
— On the calculation of path integrals with respect to a matrix-valued measure. (Russian. English and Russian summaries) **94b:65036**
Mushtari, D. Kh. (*with* Khaliullin, S. G.) Linear spaces with probability measures, ultraproducts and contiguity. (Russian) **94i:28002**
Novak, Erich Some applications of functional integration: average errors of numerical methods. **94e:65151**
Pearson, J. Michael An elementary proof of Gross' logarithmic Sobolev inequality. **94g:26028**
Satô, Hiroshi[1] Gaussian measures on locally convex spaces and related topics. **94b:60009**
Shavgulidze, E. T. *see* **Smolyanov, O. G., 94c:46086**
Smolyanov, O. G. (*with* Shavgulidze, E. T.) The support of a symplectic Feynman measure and the uncertainty principle. (Russian) **94c:46086**
Tardelli, P. *see* **De Santis, Alberto; et al., 94b:60010**
Tirapegui, E. *see* **Calisto, H.; et al., 94e:82078** *and* **94f:82055**
Voloshina, I. A. On an approximate formula for an integral with respect to a Gaussian measure. (Russian. Russian summary) **94d:60005**
Wu, Jiang Lun Radon extension of cylindrical measures on weak dual multi-Hilbertian spaces and the generalized Bochner theorem. (English summary) **94c:60010**
Yan, Jia An An elementary proof of a theorem of Lee.

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Ferrando, J. C. A projective description of the simple scalar function space. (English and Spanish summaries) **94e:46006**
Harrison, Jenny C. Stokes' theorem for nonsmooth chains. (English summary) **94d:58020**

28Dxx Measure-theoretic ergodic theory [see also 11K50, 11K55, 22D40, 47A35, 54H20, 58Fxx, 60Fxx, 60G10]

28D05 Measure-preserving transformations

Adams, Scot Very weak Bernoulli for amenable groups. (English summary) **94f:28019**
Adams, Terrence Uniformly sweeping out does not imply mixing. **94k:28027**
Assani, I. The Wiener-Wintner property for the helical transform of the shift on $[0, 1]^{\mathbf{Z}}$. (English summary) **94a:28030**
— The helical transform and the a.e. convergence of Fourier series. **94a:28029**
Becker, M. E. On "good universal weights" in ergodic theory. (English summary) **94m:28023**
Bose, Christopher J. Mixing examples in the class of piecewise monotone and continuous maps of the unit interval. (English summary) **94h:28010**
Boshernitzan, Michael D. Quantitative recurrence results. (English summary) **94k:28028**
Bourgain, Jean On the spectral type of Ornstein's class one transformations. (English summary) **94j:28007**
Boyarsky, A. (*with* Góra, Paweł; Lou, Y.-S.) Constructive approximations to the invariant densities of higher-dimensional transformations. (English summary) **94m:28024**
Bramson, Maury (*with* Kalikow, Steven A.) Nonuniqueness in g-functions. (English summary) **94h:28011**
Choe, Geon H. Weakly mixing interval exchange transformations. (English summary) **94g:28020**
Coelho, Zaqueu On the asymptotic range of cocycles for shifts of finite type. (English summary) **94k:28029**
Dajani, Karma (*with* Hawkins, J. M.) Rohlin factors, product factors, and joinings for n-to-one maps. (English summary) **94h:28012**
Dawidowicz, Antoni Leon On the generalized Avez method. (English summary) **94a:28031**

El Berdan, Kassem Théorème ergodique vectoriel pour des transformations ponctuelles préservant la mesure. (English and French summaries) [Vectorial ergodic theorem for measure-preserving point transformations] **94h:28013**

Fisher, Albert M. Integer Cantor sets and an order-two ergodic theorem. (English summary) **94h:28014**

Furstenberg, Hillel (*with* Katznelson, Yitzhak) A density version of the Hales-Jewett theorem. **94f:28020**

Ganikhodzhaev, R. N. *see* **Sarymsakov, A. T., 94k:28030**

Glasner, Eli (*with* Host, B.; Rudolph, Daniel J.) Simple systems and their higher order self-joinings. (English summary) **94e:28007**

Góra, Paweł Importance of bounded variation condition for stability of an absolutely continuous invariant measure. (English summary) **94m:28025**

— *see also* **Boyarsky, A.; et al., 94m:28024**

Hasfura-Buenaga, J. Roberto The equivalence theorem for Z^d-actions of positive entropy. (English summary) **94f:28021**

Hawkins, J. M. *see* **Dajani, Karma, 94h:28012**

Host, B. *see* **Glasner, Eli; et al., 94e:28007**

Iwanik, A. Cyclic approximation of irrational rotations. (English summary) **94i:28012**

Kachurovskiĭ, A. G. Fluctuations of means in a statistical ergodic theorem. (Russian) **94j:28008**

Kalikow, Steven A. (*with* Katznelson, Yitzhak; Weiss, Benjamin) Finitarily deterministic generators for zero entropy systems. (English summary) **94h:28015**

— *see also* **Bramson, Maury, 94h:28011**

Katznelson, Yitzhak *see* **Furstenberg, Hillel, 94f:28020** *and* **Kalikow, Steven A.; et al., 94h:28015**

Kim, Hoi Sub *see* **Kim, Hong Oh, 94b:28005**

Kim, Hong Oh (*with* Kim, Hoi Sub) Iterations, Denjoy-Wolff points and ergodic properties of point-mass singular inner functions. (English summary) **94b:28005**

King, Jonathan L. (*with* Thouvenot, Jean-Paul) A canonical structure theorem for finite joining-rank maps. (English summary) **94i:28013**

— Ergodic properties where order 4 implies infinite order. (English summary) **94i:28014**

Kowalski, Zbigniew S. The exactness of generalized skew products. **94a:28032**

— Ergodic properties of skew products with Lasota-Yorke type maps in the base. (English summary) **94m:28026**

Krzyżewski, Karol On exact toral endomorphisms. (English summary) **94m:28027**

Kwiatkowski, Jan Factors of ergodic group extensions of rotations. (English summary) **94a:28033**

Lemańczyk, Mariusz (*with* Liardet, Pierre; Thouvenot, Jean-Paul) Coalescence of circle extensions of measure-preserving transformations. (English summary) **94c:28018**

— (*with* Mauduit, Christian) Ergodicity of a class of cocycles over irrational rotations. (English summary) **94m:28028**

Lesigne, E. Équations fonctionnelles, couplages de produits gauches et théorèmes ergodiques pour mesures diagonales. (English and French summaries) [Functional equations, couplings of skew products, ergodic theorems for diagonal measures] **94m:28029**

Liardet, Pierre *see* **Lemańczyk, Mariusz; et al., 94c:28018**

Lou, Y.-S. *see* **Boyarsky, A.; et al., 94m:28024**

Martín-Reyes, F. J. (*with* de la Torre, Alberto) On the pointwise ergodic theorem in L_p. (English summary) **94m:28030**

Mauduit, Christian *see* **Lemańczyk, Mariusz, 94m:28028**

Molinek, D. K. Asymptotic measures for skew products of Bernoulli shifts with generalized north pole–south pole diffeomorphisms. (English summary) **94m:28031**

Mycielski, Jan Some unsolved problems on the prevalence of ergodicity, instability, and algebraic independence. **94c:28019**

Nair, Radhakrishnan On polynomials in primes and J. Bourgain's circle method approach to ergodic theorems. II. (English summary) **94j:28009**

Ortega Salvador, Pedro Convergence of the averages and finiteness of ergodic power functions in weighted L^1 spaces. (English summary) **94d:28019**

— Weights for the ergodic maximal operator and a.e. convergence of the ergodic averages for functions in Lorentz spaces. (English summary) **94g:28021**

Pask, D. A. Ergodicity of certain cylinder flows. (English summary) **94a:28034**

Radin, Charles Symmetry of tilings of the plane. (English summary) **94g:28022**

Rahe, M. On a class of generalized baker's transformations. (English summary) **94d:28020**

Reinhold-Larsson, Karin Discrepancy of behavior of perturbed sequences in L^p spaces. **94e:28008**

Rosenblatt, Joseph M. (*with* Wierdl, Máté) A new maximal inequality and its applications. (English summary) **94a:28035**

— Norm convergence in ergodic theory and the behavior of Fourier transforms. (English summary) **94m:28032**

Roth, Jean-Pierre Généralisation des inégalités ergodiques maximales. (English and French summaries) [Generalization of maximal ergodic inequalities] **94j:28010**

Rudolph, Daniel J. *see* **Glasner, Eli; et al., 94e:28007**

Ryzhikov, V. V. An estimate for the entropy of a class of Z^2-actions. (Russian) **94a:28036**

— Joinings, wreath products, factors and mixing properties of dynamical systems. (Russian. Russian summary) **94h:28016**

Sarymsakov, A. T. (*with* Ganikhodzhaev, R. N.) The ergodic principle and regularity for a class of quadratic stochastic operators that act in a finite-dimensional simplex. (Russian. English and Uzbek summaries) **94k:28030**

Sharapov, V. G. Ergodic Markov endomorphisms of Lebesgue spaces. (Russian. English and Uzbek summaries) **94m:28033**

Shields, Paul C. Waiting times: positive and negative results on the Wyner-Ziv problem. (English summary) **94i:28015**

— Two divergence-rate counterexamples. (English summary) **94i:28016**

Thouvenot, Jean-Paul *see* **Lemańczyk, Mariusz; et al., 94c:28018** *and* **King, Jonathan L., 94i:28013**

de la Torre, Alberto *see* **Martín-Reyes, F. J., 94m:28030**

Tuncel, Selim Faces of Markov chains and matrices of polynomials. **94m:28034**

Weiss, Benjamin *see* **Kalikow, Steven A.; et al., 94h:28015**

Wierdl, Máté *see* **Rosenblatt, Joseph M., 94a:28035**

Items with secondary classifications in 28D05

Aaronson, Jon (*with* Denker, Manfred; Urbański, Mariusz) Ergodic theory for Markov fibred systems and parabolic rational maps. **94g:58116**

Alexander, Kenneth S. (*with* Kalikow, Steven A.) Random stationary processes. (English summary) **94f:60054**

Arnold, Ludwig (*with* Xu, Kedai) Normal forms for random diffeomorphisms. (English summary) **94c:58182**

Aubry, Serge J. The concept of anti-integrability: definition, theorems and applications to the standard map. (English summary) **94c:58179**

Baker, Richard *see* **Goertzel, Ben; et al., 94k:58112**

Bakhtin, V. I. A direct method for constructing an invariant measure on a hyperbolic attractor. (Russian. Russian summary) **94d:58083**

Baladi, V. (*with* Young, Lai Sang) On the spectra of randomly perturbed expanding maps. (English summary) **94g:58172**

Bamón, Rodrigo (*with* Plaza S., Sergio) Cantor sets, numerical invariants and Perron-Frobenius theory. (English summary) **94b:28001**

Berend, Daniel (*with* Radin, Charles) Are there chaotic tilings? (English summary) **94g:58117**

Blanchard, F. (*with* Lemańczyk, Mariusz) Measure-preserving diffeomorphisms with an arbitrary spectral multiplicity. **94f:58102**

Bödigheimer, Carl-Friedrich Interval exchange spaces and moduli spaces. (English summary) **94m:57036**

Bowman, Harold *see* **Goertzel, Ben; et al., 94k:58112**

Boyle, Mike Symbolic dynamics and matrices. **94g:58062**

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— (*with* Hu, Hai Ping; Fan, Ying) Some notes on B-valued fuzzy measures. (Chinese. English and Chinese summaries)
— *see also* **Wu, Cong Xin; et al., 94c:28026**
Meng, Xian Li *see* **Zhang, Guang Quan**
Mesiar, Radko General fuzzy observables. (English summary) **94i:28019**
— Fuzzy measurable functions. (English summary) **94d:28024**
— (*with* Šipoš, Ján) Radon-Nikodým like theorem for fuzzy measures. (English summary)
— Fundamental triangular norm based tribes and measures. (English summary) **94h:28019**
Murofushi, Toshiaki (*with* Sugeno, Michio) Some quantities represented by the Choquet integral. (English summary) **94c:28025**

Navara, Mirko (*with* Pták, Pavel) *P*-measures on soft fuzzy σ-algebras. (English summary) **94g:28028**
Pap, Endre Extension of $\oplus$-decomposable measures. **94m:28038**
Pták, Pavel *see* **Navara, Mirko, 94g:28028**
Qi, Ming (*with* Shi, Dong He) The representation of Radon probability measures by Loeb measures on compact perfectly normal T_2 spaces. (Chinese. English and Chinese summaries) **94k:28035**
Qiao, Zhong *B*-valued measure and *B*-valued integral on *L*-fuzzy sets. (English summary) **94k:28036**
Roman F., Heriberto *see* **Flores F., Arturo; et al., 94h:28017**
Shi, Dong He *see* **Qi, Ming, 94k:28035**
Shi, Kai Quan *see* **Zhang, Guang Quan**
Šipoš, Ján *see* **Mesiar, Radko**
Sugeno, Michio *see* **Murofushi, Toshiaki, 94c:28025**
Sun, Qing He Property (S) of fuzzy measure and Riesz's theorem. (English summary)
Wang, Shu Li *see* **Wu, Cong Xin; et al., 94c:28026**
Wang, Zhen Yuan (*with* Klir, George J.) ★ Fuzzy measure theory. **94f:28030**
Wang, Zi Xiao *see* **Zhang, De Li, 94a:28039**
Wu, Cong Xin (*with* Wang, Shu Li; Ma, Ming) Generalized fuzzy integrals. I. Fundamental concepts. (English summary) **94c:28026**
— (*with* Ha, Ming Hu) On the null-additivity and the uniform autocontinuity of a fuzzy measure. (English summary) **94k:28037**
— (*with* Ha, Ming Hu) Completion of a fuzzy measure. (English summary)
Yoneda, Minoru *see* **Grabisch, Michel; et al., (94a:00007)**
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— (*with* Wang, Zi Xiao) Measures and integrals for fuzzy numbers. (Chinese. English and Chinese summaries)
Zhang, Guang Quan The convergence for a sequence of fuzzy integrals of fuzzy number-valued functions on the fuzzy set. (English summary) **94d:28025**
— Convergence of a sequence of fuzzy number-valued fuzzy measurable functions on the fuzzy number-valued fuzzy measure space. (English summary)
— (*with* Meng, Xian Li) Lattice-valued fuzzy integrals of lattice-valued functions with respect to lattice-valued fuzzy measure. (English summary)
— (*with* Shi, Kai Quan) Some properties of lattice-valued fuzzy measures on *L*-fuzzy sets. (English summary)
— *see also* **Liu, Yain Kui** *and* **Ji, Ai Bing**

Items with secondary classifications in 28E10

Butnariu, Dan (*with* Klement, Erich Peter) Triangular norms and some applications to measure and game theory. (English summary) **94a:04003**
Chen, Yuan Yan Bernoulli trials: from a fuzzy measure point of view. (English summary) **94g:60007**
Jiang, Xing Zhong The *tK*-integral and the *Kt*-integral. (Chinese. English and Chinese summaries) **94g:26037**
Klement, Erich Peter *see* **Butnariu, Dan, 94a:04003**
Kolesárová, Anna On the structure of fuzzy observables. (English summary) **94g:81007**
Lê bá Long Vector-valued fuzzy measures on fuzzy quantum posets. (English summary) **94j:81020**
Lee, E. Stanley *see* **Zhang, Dazhi; et al., 94d:04019**
Li, Lu Shu The λ-additive measures generated by density functions. (English summary)
Mesiar, Radko (*with* Rybárik, Ján) Pseudo-arithmetical operations. (English summary) **94h:08001**
Ouyang, He *see* **Zhang, Dazhi; et al., 94d:04019**
Riečan, Beloslav On a fuzzy approach to quantum mechanics. (English summary) **94e:81009**
Rybárik, Ján *see* **Mesiar, Radko, 94h:08001**
Šajda, Jozef Uncertainty measures of fuzzy propositions and their use in fuzzy inference. **94h:03047**
Yager, Ronald R. Element selection from a fuzzy subset using the fuzzy integral. (English summary) **94d:93078**
— *see also* **Zhang, Dazhi; et al., 94d:04019**
Yan, Bolin Semiconormed possibility integrals for application oriented modelling. (English summary)
Zhang, Dazhi (*with* Ouyang, He; Lee, E. Stanley; Yager, Ronald R.) On fuzzy random sets and their mathematical expectations. (English summary) **94d:04019**

28E15 Other connections with logic and set theory

Items with secondary classifications in 28E15

Džamonja, Mirna (*with* Kunen, Kenneth) Measures on compact HS spaces. (English summary) **94h:54047**
Kunen, Kenneth *see* **Džamonja, Mirna, 94h:54047**

30–XX Functions of a complex variable {For analysis on manifolds, see 58–XX.}

30–01 Instructional exposition (textbooks, tutorial papers, etc.)

Brickman, Louis The symmetry principle for Möbius transformations.
Busam, Rolf *see* **Freitag, Eberhard, 94j:30001**
Freitag, Eberhard (*with* Busam, Rolf) ★ Funktionentheorie. (German. German summary) [Function theory] **94j:30001**
Hadlock, Edwin H. *see* **Moore, Theral O., 94c:30001**
Hu, Chuan Gan (*with* Yang, Chung-Chun) ★ Vector-valued functions and their applications. **94a:30001**
Jänich, Klaus ★ Funktionentheorie. (German. German summary) [Theory of functions]
Jeffrey, Alan ★ Complex analysis and applications.
Kečkić, Jovan D. *see* **Mitrinović, Dragoslav S., 94k:30001**
Mitrinović, Dragoslav S. (*with* Kečkić, Jovan D.) ★ The Cauchy method of residues. Vol. 2. (English summary) **94k:30001**
Moore, Theral O. (*with* Hadlock, Edwin H.) ★ Complex analysis. **94c:30001**
Needham, Tristan The geometry of harmonic functions.
Tutschke, Wolfgang The position of complex analysis in the mathematical analysis of today. (English and Polish summaries)
Yang, Chung-Chun *see* **Hu, Chuan Gan, 94a:30001**

Items with secondary classifications in 30–01

Ferrier, Jean-Pierre ★ Mathématiques pour la licence. (French. French summary) [Mathematics for the Bachelor's Degree] **94m:00002**
Gelbaum, Bernard R. ★ Problems in real and complex analysis. (English summary) **94d:00003**

30–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 30–02

Dolzhenko, E. P. D. E. Men'shov's work on the theory of analytic functions and the current state of monogeneity theory. (Russian. Russian summary) **94d:30002**
— D. E. Men'shov and the current state of monogeneity theory. (Russian. Russian summary) **94d:30001**
Isakov, Victor Uniqueness and stability in multi-dimensional inverse problems. (English summary) **94j:35189**
Laine, Ilpo ★ Nevanlinna theory and complex differential equations. **94d:34008**
(Men'shov, D. E.) *see* **Dolzhenko, E. P., 94d:30001**

30–03 Historical (must also be assigned at least one classification number from Section 01)

Bi, Shu Luo The development of Cauchy's theorem and its conception. (Chinese. English and Chinese summaries)
Domoradzki, Stanisław Automorphic functions in the work of Stanisław Kępiński (1867–1908). (Polish. English and Polish summaries)
(Kępiński, Stanisław) *see* **Domoradzki, Stanisław**

Items with secondary classifications in 30–03

(Gabeskiria, Ts.) *see* **Vekua, I.**
Kjeldsen, Tinne Hoff The early history of the moment problem. (English, French and German summaries) **94a:01022**
(Muskhelishvili, N. I.) *see* **Vekua, I.**
Vekua, I. ★ Academician N. Muskhelishvili. (English summary)

Items listed otherwise than by author

Anniversary:
Birth of Muskhelishvili, N. *see* **Vekua, I.**
Bibliography:
Muskhelishvili, N. *see* **Vekua, I.**

30–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 30–04

Wegert, Elias ★ Nonlinear boundary value problems for holomorphic functions and singular integral equations. (English and German summaries) **94b:30049**

30–06 Proceedings, conferences, collections, etc.

(Chiang, Yik-Man) *see* **Complex analysis and its applications, 94m:30001**
(Cooper, S. Clement) *see* **Continued fractions and orthogonal functions, 94i:30001**
(Li, Kin Yin) *see* **Complex analysis and its applications, 94m:30001**
(Owa, Shigeyoshi) *see* **Current topics in analytic function theory, 94b:30001**
(Srivastava, Hari M.) *see* **Current topics in analytic function theory, 94b:30001**
(Thron, W. J.) *see* **Continued fractions and orthogonal functions, 94i:30001**
(Wen, Guo Chun) *see* **Complex analysis and its applications, 94m:30001**
(Yang, Chung-Chun) *see* **Complex analysis and its applications, 94m:30001**

Items listed otherwise than by author

Complex analysis and its applications ★ Complex analysis and its applications. **94m:30001**
Conference:
Complex Analysis and its Applications ★ Complex analysis and its applications. **94m:30001**
Continued fractions and orthogonal functions ★ Continued fractions and orthogonal functions. **94i:30001**
Current topics in analytic function theory ★ Current topics in analytic function theory. **94b:30001**
Hong Kong ★ Complex analysis and its applications. **94m:30001**
Loen ★ Continued fractions and orthogonal functions. **94i:30001**
New developments in univalent functions ★ Tan'yoo kansūron no atarashii tenkai ni tsuite. [New developments in univalent functions] **94i:30002**

Symposium:
New Developments in Univalent Functions ★ Tan'yoo kansūron no atarashii tenkai ni tsuite. [New developments in univalent functions] **94i:30002**
Workshop:
Continued Fractions and Orthogonal Functions ★ Continued fractions and orthogonal functions. **94i:30001**

Items with secondary classifications in 30–06

(Pinchuk, S. I.) *see* **Complex analysis and differential equations, 94f:00015**

Items listed otherwise than by author

Complex analysis and differential equations ★ Комплексный анализ и дифференциальные уравнения. (Russian) [Complex analysis and differential equations] **94f:00015**
Research on Hardy spaces related to rings of functions ★ Hardy kūkan no kenkyū—kansū kan to kanren shite. (Japanese) [Research on Hardy spaces related to rings of functions] **94k:46003**
Symposium:
Research on Hardy Spaces Related to Rings of Functions ★ Hardy kūkan no kenkyū—kansū kan to kanren shite. (Japanese) [Research on Hardy spaces related to rings of functions] **94k:46003**

30Axx General properties

30A05 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)

Bondar', A. V. (*with* Luk'yanova, E. A.) On the structure of sets of σ-monogeneity of continuous functions. (Russian. Russian and Ukrainian summaries) **94g:30001**
Dolzhenko, E. P. D. E. Men'shov's work on the theory of analytic functions and the current state of monogeneity theory. (Russian. Russian summary) **94d:30002**
— D. E. Men'shov and the current state of monogeneity theory. (Russian. Russian summary) **94d:30001**
Luk'yanova, E. A. *see* **Bondar', A. V., 94g:30001**
(Men'shov, D. E.) *see* **Dolzhenko, E. P., 94d:30001**
Safonov, V. M. *see* **Tar, M. M.; et al., 94c:30002**
Tar, M. M. (*with* Trokhimchuk, Yu. Yu.; Safonov, V. M.) Sets of monogeneity and conditions for the analyticity of functions of a complex variable. (Russian. Russian summary) **94c:30002**
Trokhimchuk, Yu. Yu. *see* **Tar, M. M.; et al., 94c:30002**

Items with secondary classifications in 30A05

Abul-Ez, M. A. On the addition of basic sets of special monogenic polynomials. (English summary) **94j:30042**
Dimitrovski, Dragan (*with* Rajović, Miloje) Sur l'équation différentielle aréolaire linéaire aux coefficients "constants". L'équation aréolaire d'Euler. (Serbo-Croatian summary) [Linear areolar differential equations with "constant" coefficients. The areolar Euler equation] **94e:34007**
Malonek, Helmuth R. On the application of a permutational product in the theory of monogenic functions. (Russian. Russian summary) (*see* **94f:00015**)
Rajović, Miloje *see* **Dimitrovski, Dragan, 94e:34007**
Winkler, Jörg A uniqueness theorem for monogenic functions. (English summary) **94f:30058**

30A10 Inequalities in the complex domain

Peretz, Ronen A generalization of an inequality of Zygmund. (English summary) **94b:30002**

Items with secondary classifications in 30A10

Li, Zhong A new explicit bound in Landau's theorem. (English summary) **94d:30018**
Petković, Lj. D. On optimal including circular approximation for the range of a complex exponential function. (English, German and Russian summaries) **94d:30067**

30A99 None of the above, but in this section

Ilmuradov, D. D. On a criterion for a function to be holomorphic. (Russian. Russian summary) **94j:30002**
Tiago de Oliveira, J. C. B. A brief essay on the extension to quaternions of the exponential, logarithm and power. (Portuguese. English summary)
Tian, You Xian L'Hôpital rules for conjugate analytic functions. (Chinese. English and Chinese summaries)
Ye, Shou Zhen Computation of the integral $(2\pi i)^{-1}\int_C \varphi(z)(f'(z)/f(z))\,dz$—an extension of the argument principle. (Chinese)

Items with secondary classifications in 30A99

Ebanks, B. R. (*with* Losonczi, László) On the linear independence of some functions. **94f:39006**
Garofalo, Nicola (*with* Segàla, Fausto) Asymptotic expansions for a class of Fourier integrals and applications to the Pompeiu problem. **94i:35052**
— (*with* Segàla, Fausto) Another step toward the solution of the Pompeiu problem in the plane. **94j:30039**
Losonczi, László *see* **Ebanks, B. R., 94f:39006**
Segàla, Fausto *see* **Garofalo, Nicola, 94i:35052** *and* **94j:30039**
Sharma, Chandra Shekhar Complex analysis, $\partial/\partial z$, $\partial/\partial\bar{z}$ and the calculus with additive rather than linear derivatives. (English summary) **94m:58023**
Volchkov, V. V. On a problem of Zalcman and its generalizations. (Russian) **94i:43008**

30Bxx Series expansions

30B10 Power series (including lacunary series)

Abian, Alexander (*with* Wilson, James A.) The coefficients of the Laurent series expansions of real analytic functions. (English summary) **94e:30001**
Balser, Werner (*with* Tovbis, A.) Multisummability of iterated integrals. (English summary) **94g:30002**
Bender, Carl M. (*with* Milton, Kimball A.) Continued fraction as a discrete nonlinear transform. (English summary) **94m:30002**
Bruno, Oscar P. (*with* Reitich, Fernando) Approximation of analytic functions: a method of enhanced convergence. (English summary) **94m:30003**
Grozina, A. A. (*with* Popov, A. F.) Further results on the distribution of zeros of partial sums of a power series. (Russian) (*see* **94i:46001**)
Jevtić, Miroljub (*with* Jovanović, Ivan) Coefficient multipliers of mixed norm spaces. (English summary) **94k:30002**
Jovanović, Ivan *see* **Jevtić, Miroljub, 94k:30002**
Katsoprinakis, E. S. (*with* Nestoridis, V.) An application of Kronecker's theorem to rational functions. **94m:30004**
Kaz'min, Yu. A. On a property of power series. (Russian)
Luh, Wolfgang (*with* Stadtmüller, Karin) The zero distribution of Nörlund transforms of power series. (English summary) **94m:30005**
Milton, Kimball A. *see* **Bender, Carl M., 94m:30002**
Nestoridis, V. Limit points of partial sums of Taylor series on a circle. (English summary) **94m:30006**
— *see also* **Katsoprinakis, E. S., 94m:30004**
Offord, A. C. Lacunary entire functions. (English summary) **94m:30007**
Popov, A. F. *see* **Grozina, A. A., (94i:46001)**
Reitich, Fernando *see* **Bruno, Oscar P., 94m:30003**
Stadtmüller, Karin *see* **Luh, Wolfgang, 94m:30005**
Todorov, Pavel G. A disproof of a conjecture of Robertson and generalizations. **94k:30003**
— On the nth derivative of the function $f(z^p)$ and a new extension of the generalized Hermite polynomials theory. (English and Lithuanian summaries) **94b:30003**
— Taylor expansions of the functions $(1+z)^{x/z}$ and $(1+z)^{xz}$. **94b:30004**
Tovbis, A. *see* **Balser, Werner, 94g:30002**
Wilson, James A. *see* **Abian, Alexander, 94e:30001**

Items with secondary classifications in 30B10

Anderson, James Milne Coefficient multipliers and solid spaces. **94i:46037**
Berenstein, Carlos A. (*with* Kawai, Takahiro; Struppa, Daniele C.) Interpolation theorems in several complex variables and applications. **94h:32016**
Bielefeld, B. (*with* Fisher, Y.; von Haeseler, Fritz) Computing the Laurent series of the map $\Psi\colon \mathbf{C}-\overline{D}\to\mathbf{C}-M$. (English summary) **94b:58083**
de Brito, Francisco Fortes Power series with Hadamard gaps and hyperbolic complete minimal surfaces. **94d:53012**
Brück, Rainer (*with* Müller, Jürgen[3]) Invertible elements in a convolution algebra of holomorphic functions. **94a:30037**
Driver, K. A. (*with* Lubinsky, Doron S.) Convergence of Padé approximants for a q-hypergeometric series (Wynn's power series III). (English summary) **94a:41033**
Fisher, Y. *see* **Bielefeld, B.; et al., 94b:58083**
Gethner, Robert M. Zeros of the successive derivatives of Hadamard gap series. **94d:30053**
von Haeseler, Fritz *see* **Bielefeld, B.; et al., 94b:58083**
Kawai, Takahiro *see* **Berenstein, Carlos A.; et al., 94h:32016**
Kongsakorn, Kannika *see* **Laohakosol, Vichian; et al., 94c:13021**
Laohakosol, Vichian (*with* Kongsakorn, Kannika; Ubolsri, Patchara) Power series of Eisenstein-Hurwitz-Carlitz type. (English summary) **94c:13021**
Lubinsky, Doron S. *see* **Driver, K. A., 94a:41033**
Müller, Jürgen[3] *see* **Brück, Rainer, 94a:30037**
Reitberger, H. Some remarks about a controversy on the solution of Schröder's functional equation. **94a:39017**
Stoilov, P. The Taylor coefficients of multipliers of the space BMOA. **94j:30034**
Struppa, Daniele C. *see* **Berenstein, Carlos A.; et al., 94h:32016**
Tee, Garry J. Integer sums of recurring series. (English summary) **94k:11016**
Ubolsri, Patchara *see* **Laohakosol, Vichian; et al., 94c:13021**

30B20 Random power series

Cochran, W. George (*with* Shapiro, Joel H.; Ullrich, David C.) Random Dirichlet functions: multipliers and smoothness. (English summary) **94f:30001**
Meredov, B. On the domains of analyticity of complex power series with independent random coefficients. (Russian. Russian and Ukrainian summaries) **94h:30001**
Shapiro, Joel H. *see* **Cochran, W. George; et al., 94f:30001**
Ullrich, David C. *see* **Cochran, W. George; et al., 94f:30001**

30B30 Boundary behavior of power series, over-convergence

Thron, W. J. Limit periodic Schur algorithms, the case $|\gamma|=1$, $\sum d_n<\infty$. (English summary) **94a:30002**

Items with secondary classifications in 30B30

Mu, Le Hua Singularity and overconvergence of general Laguerre series. (Chinese summary) **94m:33006**

30B40 Analytic continuation

Müller, Jürgen[3] Coefficient multipliers from $H(G_1)$ into $H(G_2)$. **94f:30002**
Tovmasyan, N. E. The principle of analytic continuation beyond an elliptical arc and its applications. (Russian. English, Russian and Armenian summaries) **94e:30002**

Items with secondary classifications in 30B40

Carletti, E. (*with* Monti Bragadin, G.) On analytic continuation and functional equation of certain Dirichlet series. (English summary) **94g:30003**

Fruchard, Augustin Prolongement analytique et systèmes dynamiques discrets. (English summary) [Analytic continuation and discrete dynamical systems] **94e:30019**
Grigoryan, N. V. On the analytic continuation and representation of functions belonging to the closures of incomplete systems of Mittag-Leffler type. (Russian. Armenian summary) **94j:30003**
Kalniņš, I. On the analytic continuation of a function. (Russian. Russian summary) **94i:11066**
Monti Bragadin, G. *see* **Carletti, E., 94g:30003**
Tran Ngoc Giao Removable singularities and Liouville-type property of analytic multivalued functions. (English and French summaries) **94e:32027**

30B50 Dirichlet series and other series expansions, exponential series [see also 11M41, 42–XX]

Berenstein, Carlos A. (*with* Struppa, Daniele C.) Interpolation and Dirichlet series: a new approach. **94f:30003**
Bhattacharya, D. K. (*with* Manna, S.) Existence of identity and related problems in the space of entire Dirichlet series. (English summary) **94b:30005**
Bhola, D. K. *see* **Gupta, J. S., 94m:30008**
Bratishchev, A. V. Basis of exponentials in a half-plane and a strip. (Russian) **94a:30003**
Carletti, E. (*with* Monti Bragadin, G.) On analytic continuation and functional equation of certain Dirichlet series. (English summary) **94g:30003**
Ding, Xiao Qing The (α, β)-order of analytic Dirichlet series of (R)-order zero. (Chinese. Chinese summary) **94k:30004**
Elizalde, E. (*with* Romeo, August) Theta function identities from optical neural network transformations. (English summary)
Gupta, J. S. (*with* Bhola, D. K.) Maximum term function of entire Dirichlet series. (English and Turkish summaries) **94m:30008**
Karimova, M. M. Applications of Tauberian theorems. (Russian) **94f:30004**
Lyubarskiĭ, Yu. I. (*with* Tkachenko, Vadim Aleksandrovich) Completeness of a system of functions on sets in the complex plane. **94m:30009**
Manna, S. *see* **Bhattacharya, D. K., 94b:30005**
McCoy, Peter A. Polynomial expansions of analytic functions by function-theoretic methods. **94f:30005**
Monti Bragadin, G. *see* **Carletti, E., 94g:30003**
Romeo, August *see* **Elizalde, E.**
Sharma, Poonam *see* **Srivastava, S. N.**
Smith, Harry V. The behaviour of the analytic function defined by a Dirichlet series. (English summary) **94b:30006**
Srivastava, S. N. (*with* Sharma, Poonam) On the maximum real part of an integral function represented by Dirichlet series.
Struppa, Daniele C. *see* **Berenstein, Carlos A., 94f:30003**
Sun, Dao Chun Dimensions of boundary fractals of Dirichlet series. (Chinese. Chinese summary) **94k:30005**
— The dimension of the boundary fractal of Dirichlet series. (English summary) **94m:30010**
Tietz, Horst Zur Summierbarkeit von Faber-Reihen. [On the summability of Faber series] **94f:30006**
Tkachenko, Vadim Aleksandrovich *see* **Lyubarskiĭ, Yu. I., 94m:30009**

Items with secondary classifications in 30B50

Abanin, A. V. Geometric criteria for representing analytic functions by series of generalized exponentials. (Russian) **94d:30047**
Bratishchev, A. V. On the Köthe basis property and the moment problem in a Fréchet space with the weak topology. (Russian) **94m:46008**
Daoud, Suzanne Certain operators in the space of entire functions represented by Dirichlet series of several complex variables. (English summary) **94e:32001**
Gavrilova, R. M. (*with* Khrebto, S. I.) The existence of an entire function of one variable with a given horizontal indicator. (Russian) (*see* **94i:46001**)
Grechanyuk, M. I. The growth cone of entire double Dirichlet series. (Russian) **94h:32006**
Joó, I. On the conjugate function of Dirichlet series. **94j:42041**
Jorgenson, Jay (*with* Lang, Serge) On Cramér's theorem for general Euler products with functional equation. **94k:11101**
Khrebto, S. I. *see* **Gavrilova, R. M., (94i:46001)**
Lang, Serge *see* **Jorgenson, Jay, 94k:11101**
Lutsishin, M. R. *see* **Skaskiv, O. B., 94e:32002**
Pak, I. N. Sums of series in Bessel functions. (Russian) **94m:33003**
Sekerin, A. B. On the representation of analytic functions of several variables by exponential series. (Russian. Russian summary) **94b:32003**
Skaskiv, O. B. (*with* Lutsishin, M. R.) Minimum modulus of a multiple Dirichlet series. (Ukrainian. Russian and Ukrainian summaries) **94e:32002**

30B60 Completeness problems, closure of a system of functions

Grigoryan, N. V. On the analytic continuation and representation of functions belonging to the closures of incomplete systems of Mittag-Leffler type. (Russian. Armenian summary) **94j:30003**
Minkin, A. M. The unconditional basis property of exponentials with a gap in the spectrum. (Russian) **94d:30003**
Oskolkov, V. A. On the basis property of some polynomial systems in spaces of entire functions of exponential type. (Russian. Russian summary) **94m:30011**

Items with secondary classifications in 30B60

Dubinskiĭ, Yu. A. On an analytic nonlinear periodic problem. (Russian. Russian summary) **94g:34007**
Lyubarskiĭ, Yu. I. (*with* Tkachenko, Vadim Aleksandrovich) Completeness of a system of functions on sets in the complex plane. **94m:30009**
Saurer, Josef ★ Bases of special functions and their domains of convergence. (English and German summaries) **94m:34218**
Tkachenko, Vadim Aleksandrovich *see* **Lyubarskiĭ, Yu. I., 94m:30009**

30B70 Continued fractions [see also 11A55, 40A15]

Čanak, Miloš S. Symmetrische inverse α-areoläre Differenzen und α-Interpolation. (English summary) [Symmetric, inverse α-areolar differences and α-interpolation] **94i:30003**
Gill, John Partial limit periodic behavior in continued fractions and other. (English summary) **94c:30003**
— Outer compositions of hyperbolic/loxodromic linear fractional transformations. (English summary) **94a:30004**
Jiang, Shu Zhen On the convergence of generalized Dirichlet series with complex exponents. (Chinese summary) **94m:30012**
Lorentzen, Lisa Computations of hypergeometric functions by means of continued fractions. (English summary) **94b:30007**

Items with secondary classifications in 30B70

Achuthan, P. (*with* Rangarajan, R.) On regular C-fraction and general T-fraction expansions for ratios of basic hypergeometric series and Ramanujan-type identities. (English summary) **94i:33021**
Bergman, David J. Hierarchies of Stieltjes functions and their application to the calculation of bounds for the dielectric constant of a two-component composite medium. (English summary) **94e:73001**
Bonan-Hamada, Catherine M. (*with* Jones, William B.; Thron, W. J.; Magnus, Arne) Para-orthogonal Laurent polynomials and associated sequences of rational functions. (English summary) **94a:30029**
Gutknecht, Martin H. Stable row recurrences for the Padé table and generically superfast lookahead solvers for non-Hermitian Toeplitz systems. (English summary) **94j:41015**
Jones, William B. *see* **Bonan-Hamada, Catherine M.; et al., 94a:30029**
Lorentzen, Lisa Analytic continuation of functions given by continued fractions, revisited. (English summary) **94h:40004**
Magnus, Arne *see* **Bonan-Hamada, Catherine M.; et al., 94a:30029**
Rangarajan, R. *see* **Achuthan, P., 94i:33021**
Thron, W. J. Limit periodic Schur algorithms, the case $|\gamma| = 1$, $\sum d_n < \infty$. (English summary) **94a:30002**
— *see also* **Bonan-Hamada, Catherine M.; et al., 94a:30029**
Zahreddine, Ziad A Routh-Hurwitz approach to a Schur-Cohn problem. (English summary) **94f:93091**

30B99 None of the above, but in this section

Lassere, Patrice *see* **Nguyen Thanh Van, 94i:30004**
Nguyen Thanh Van (*with* Lassere, Patrice) Bases communes holomorphes: nouvelle extension du théorème de Whittaker. (French summary) [Holomorphic common bases: a new extension of Whittaker's theorem] **94i:30004**

Items with secondary classifications in 30B99

Lebedev, N. N. (*with* Skal'skaya, I. P.) Expansion of an arbitrary function in a series in squares of Legendre polynomials. (Russian. Russian summary) **94f:33014**
Skal'skaya, I. P. *see* **Lebedev, N. N., 94f:33014**

30Cxx Geometric function theory

30C10 Polynomials

Dewan, K. K. (*with* Govil, Narendra K.) On polynomials with a prescribed zero. (English summary) **94k:30006**
Erëmenko, A. È. (*with* Lempert, László) An extremal problem for polynomials. (English summary) **94k:30007**
Govil, Narendra K. *see* **Dewan, K. K., 94k:30006**
Jain, Vinay Kumar Inequalities for polynomials satisfying $p(z) \equiv z^n p(1/z)$. II. **94m:30013**
Lempert, László *see* **Erëmenko, A. È., 94k:30007**
Mohr, Ernst[1] Remark on the paper by A. M. Ostrowski: "Note on maximal values of polynomials on the unit circle" [Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No. 634-677 (1979), 55–56; MR 81h:30027]. (German) **94h:30002**
Olivier, P. F. (*with* Watt, A. O.) Polynomials with a prescribed zero and the Bernstein's inequality. (English summary) **94d:30004**
(Ostrowski, Alexander M.) *see* **Mohr, Ernst[1], 94h:30002**
Watt, A. O. *see* **Olivier, P. F., 94d:30004**
Wirths, Karl-Joachim An extremal problem for polynomials with a prescribed value at a given point. (English summary) **94k:30008**
Zaheer, Neyamat A generalization of Lucas' theorem to vector spaces. (English summary) **94b:30008**

Items with secondary classifications in 30C10

Argyros, Ioannis K. Bounds for the zeros of polynomials. (English summary) **94a:26035**
Bidkham, M. *see* **Dewan, K. K., 94j:26026**
Dewan, K. K. (*with* Bidkham, M.) On the Eneström-Kakeya theorem. (English summary) **94j:26026**
Dilcher, Karl (*with* Stolarsky, Kenneth B.) On a class of nonlinear differential operators acting on polynomials. **94b:34116**
— (*with* Stolarsky, Kenneth B.) Zeros of the Wronskian of Chebyshev and ultraspherical polynomials. (English summary) **94e:33009**
Eiermann, Michael J. (*with* Varga, Richard S.) Optimal semi-iterative methods applied to SOR in the mixed case. (English summary) **94m:65054**
Evans, Ronald J. (*with* Stolarsky, Kenneth B.; Wavrik, John J.) Difference polynomials. (English summary) **94a:11029**
Hollot, Christopher V. *see* **Huang, Lin; et al., 94h:93062**
Huang, Lin (*with* Wang, Long; Hollot, Christopher V.) On robust stability of polynomials and related topics. (English summary) **94h:93062**
Hubbard, John H. Local connnectivity of Julia sets and bifurcation loci: three theorems of J.-C. Yoccoz. **94c:58172**

Kyurkchiev, Nikolai V. On Sendov's conjecture. **94k:30010**
Levin, A. L. (*with* Lubinsky, Doron S.) Christoffel functions, orthogonal polynomials, and Nevai's conjecture for Freud weights. (English summary) **94f:42030**
Lubinsky, Doron S. *see* **Levin, A. L., 94f:42030**
Peretz, Ronen A generalization of an inequality of Zygmund. (English summary) **94b:30002**
Rassias, Themistocles M. On polynomial inequalities and extremal problems. (English summary) **94i:26008**
Stolarsky, Kenneth B. *see* **Evans, Ronald J.; et al., 94a:11029; Dilcher, Karl, 94b:34116** *and* **94e:33009**
Tan, Lei Voisinages connexes des points de Misiurewicz. (English and French summaries) [Connected neighborhoods of Misiurewicz points] **94a:58165**
Trimèche, Khélifa The Radon transform and its dual associated with partial differential operators and applications to polynomials on the unit disk. (English summary) **94m:44002**
Varga, Richard S. *see* **Eiermann, Michael J., 94m:65054**
Wang, Long *see* **Huang, Lin; et al., 94h:93062**
Wavrik, John J. *see* **Evans, Ronald J.; et al., 94a:11029**

30C15 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10.}

Ackner, Reuven (*with* Lev-Ari, Hanoch; Kailath, Thomas) The Schur algorithm for matrix-valued meromorphic functions. (English summary) **94m:30014**
Alzer, Horst Refinement of an inequality of E. Landau. (English summary) **94k:30009**
Beauzamy, Bernard (*with* Chou, Sylvia) On the zeros of polynomials with concentration at low degrees. II. (English summary) **94d:30005**
Chou, Sylvia *see* **Beauzamy, Bernard, 94d:30005**
Clunie, J. G. (*with* Edrei, A.) Zeros of successive derivatives of analytic functions having a single essential singularity. II. **94i:30005**
Dilcher, Karl (*with* Stolarsky, Kenneth B.) Sequences of polynomials whose zeros lie on fixed lemniscates. (English summary) **94b:30009**
Edrei, A. *see* **Clunie, J. G., 94i:30005**
Eiermann, Michael J. (*with* Varga, Richard S.) Zeros and local extreme points of Faber polynomials associated with hypocycloidal domains. (English summary) **94i:30006**
He, Matthew Numerical results on the zeros of Faber polynomials for m-fold symmetric domains. (English summary) **94f:30007**
Kailath, Thomas *see* **Ackner, Reuven; et al., 94m:30014**
Kalinina, Elizabeth A. (*with* Uteshev, A. Yu.) Determination of the number of roots of a polynomial lying in a given algebraic domain. (English summary) **94g:30004**
Kovačević, M. A. (*with* Milovanović, Igor Ž.) On a generalization of the Eneström-Kakeya theorem. (English summary) **94c:30004**
Kyurkchiev, Nikolai V. On Sendov's conjecture. **94k:30010**
Laziun, V. *see* **Tudor, Gheorghe M., (94j:00024)**
Lev-Ari, Hanoch *see* **Ackner, Reuven; et al., 94m:30014**
Miller, Michael J. On Sendov's conjecture for roots near the unit circle. **94h:30003**
Milovanović, Igor Ž. *see* **Kovačević, M. A., 94c:30004**
Song, Yong Zhong Location of the zeros of a polynomial. (Chinese. Chinese summary) **94m:30015**
Stolarsky, Kenneth B. *see* **Dilcher, Karl, 94b:30009**
Tudor, Gheorghe M. (*with* Laziun, V.) Étude sur la répartition des zéros de certaines classes de fonctions. I. (Romanian summary) [Study of the distribution of zeros of certain classes of functions. I] (*see* **94j:00024**)
Uteshev, A. Yu. *see* **Kalinina, Elizabeth A., 94g:30004**
Vâjâitu, Viorel (*with* Zaharescu, A.) Ilyeff's conjecture on a corona. **94h:30004**
Varga, Richard S. *see* **Eiermann, Michael J., 94i:30006**
Yildirim, C. Yalçin On the zeros of the sections of the exponential function. (English and Turkish summaries) **94a:30005**
Zaharescu, A. *see* **Vâjâitu, Viorel, 94h:30004**

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Argyros, Ioannis K. Bounds for the zeros of polynomials. (English summary) **94a:26035**
Ash, J. Marshall (*with* Cohen, Jonathan; Freiling, C.; Gluck, L.; Rieders, Eric; Wang, Guan Min) Characterizations and generalizations of continuity. (English summary) **94i:26001**
Barnard, Roger W. (*with* Pearce, Kent; Varga, Richard S.) An application from partial sums of e^z to a problem in several complex variables. (English summary) **94e:32037**
Beauzamy, Bernard Estimates for H^2 functions with concentration at low degrees and applications to complex symbolic computation. **94b:30042**
Bidkham, M. *see* **Dewan, K. K., 94j:26026**
Chan, Kit C. (*with* Shields, Allen L.) Zero sets, interpolating sequences, and cyclic vectors for Dirichlet spaces. **94d:46025**
Cohen, Jonathan *see* **Ash, J. Marshall; et al., 94i:26001**
Dewan, K. K. (*with* Bidkham, M.) On the Eneström-Kakeya theorem. (English summary) **94j:26026**
Evans, Ronald J. (*with* Stolarsky, Kenneth B.; Wavrik, John J.) Difference polynomials. (English summary) **94a:11029**
Freiling, C. *see* **Ash, J. Marshall; et al., 94i:26001**
Gluck, L. *see* **Ash, J. Marshall; et al., 94i:26001**
Gorbaichuk, V. I. Theorems of Hardy-Littlewood type for components of minimal surfaces in E^3. (Russian. Russian summary) **94h:53012**
Grozina, A. A. (*with* Popov, A. F.) Further results on the distribution of zeros of partial sums of a power series. (Russian) (*see* **94i:46001**)
Kajiwara, Joji (*with* Li, Lin; Tsuji, Miki) Real zeros of holomorphic functions with parameters. II. Complex numerical integration using FORTRAN77. **94k:32001**
Kim, Young-One A question of Pólya on the zeros of derivatives of real entire functions. (*see* **94m:30001**)
LeBlanc, Emile A. Recent advances in the theory of zero sets of the Bergman spaces. (English summary) **94e:30011**
Levin, A. L. (*with* Lubinsky, Doron S.) Christoffel functions, orthogonal polynomials, and Nevai's conjecture for Freud weights. (English summary) **94f:42030**
Li, Lin *see* **Kajiwara, Joji; et al., 94k:32001**
Lubinsky, Doron S. *see* **Levin, A. L., 94f:42030**
Luh, Wolfgang (*with* Stadtmüller, Karin) The zero distribution of Nörlund transforms of power series. (English summary) **94m:30005**
Pearce, Kent *see* **Barnard, Roger W.; et al., 94e:32037**
Popov, A. F. *see* **Grozina, A. A., (94i:46001)**
Rieders, Eric *see* **Ash, J. Marshall; et al., 94i:26001**
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Varga, Richard S. *see* **Barnard, Roger W.; et al., 94e:32037**
Wang, Guan Min *see* **Ash, J. Marshall; et al., 94i:26001**
Wavrik, John J. *see* **Evans, Ronald J.; et al., 94a:11029**
Zaheer, Neyamat A generalization of Lucas' theorem to vector spaces. (English summary) **94b:30008**

30C20 Conformal mappings of special domains

DeLillo, Thomas K. (*with* Elcrat, Alan R.) A Fornberg-like conformal mapping method for slender regions. (English summary) **94b:30010**
Elcrat, Alan R. *see* **DeLillo, Thomas K., 94b:30010**
Hoy, Erich On the approximation of the modulus of a quadrilateral. (*see* **94f:00015**)
Kühnau, Reiner Geometrisch-funktionen-theoretische Lösung eines Extremalproblems der konformen Abbildung. III. (English summary) [Geometric-function-theoretical solution of an extremal problem for conformal mappings. III] **94c:30005**
Lameier, S. H. (*with* Merkes, E. P.) Univalence domains. (English summary) **94i:30007**
Merkes, E. P. *see* **Lameier, S. H., 94i:30007**
Tlyusten, S. R. Multivalent conformal mappings with a composite free boundary. (Russian) **94b:30011**

Items with secondary classifications in 30C20

Chung, Young-Bok The Ahlfors mapping function and an extremal problem in the plane. (English summary) **94e:30003**
Gordienko, V. M. Boundary properties of conformal and quasiconformal mappings of polygons. (Russian. Russian summary) **94c:30023**
Solynin, A. Yu. Some extremal problems for circular polygons. (Russian. English and Russian summaries) **94m:30048**
Tan, Lei Voisinages connexes des points de Misiurewicz. (English and French summaries) [Connected neighborhoods of Misiurewicz points] **94a:58165**
Tovmasyan, N. E. The principle of analytic continuation beyond an elliptical arc and its applications. (Russian. English, Russian and Armenian summaries) **94e:30002**

30C25 Covering theorems in conformal mapping theory

Chung, Young-Bok The Ahlfors mapping function and an extremal problem in the plane. (English summary) **94e:30003**

Items with secondary classifications in 30C25

Dong, Dao Zhen *see* **Zhang, Wen Jun, 94a:58008**
Minda, David Another approach to Picard's theorem and a unifying principle in geometric function theory. (English summary) **94k:30086**
Ponnusamy, S. On starlikeness of certain integral transforms. **94b:30029**
Silverman, Herb Radii problems for the convolution of univalent functions. **94d:30028**
Zhang, Wen Jun (*with* Dong, Dao Zhen) A growth theorem and a $\frac{1}{4}$-theorem for starlike mappings in Banach spaces. (Chinese. Chinese summary) **94a:58008**

30C30 Numerical methods in conformal mapping theory [see also 65E05]

Chandler-Wilde, S. N. *see* **Hough, D. M.; et al., 94a:30006**
DeLillo, Thomas K. (*with* Pfaltzgraff, John A.) Extremal distance, harmonic measure and numerical conformal mapping. (English summary) **94d:30006**
Hough, D. M. (*with* Levesley, Jeremy; Chandler-Wilde, S. N.) Numerical conformal mapping via Chebyshev weighted solutions of Symm's integral equation. (English summary) **94a:30006**
Howell, Louis H. Numerical conformal mapping of circular arc polygons. (English summary) **94b:30012**
Levesley, Jeremy *see* **Hough, D. M.; et al., 94a:30006**
Papamichael, N. (*with* Saff, E. B.) Local behaviour of the error in the Bergman kernel method for numerical conformal mapping. (English summary) **94f:30008**
Pfaltzgraff, John A. *see* **DeLillo, Thomas K., 94d:30006**
Saff, E. B. *see* **Papamichael, N., 94f:30008**

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Bena, Dorin *see* **Carabineanu, Adrian, 94h:76072**
Brauchli, Hans *see* **Haas, Roland, 94e:65035**
Carabineanu, Adrian (*with* Bena, Dorin) ★ Metoda transformărilor conforme pentru domenii vecine cu aplicaţii în mecanica fluidelor. (Romanian) [The method of conformal mappings for neighboring domains and its applications in fluid mechanics] **94h:76072**
Chuang, J. M. (*with* Gui, Q. Y.; Hsiung, C. C.) Numerical computation of Schwarz-Christoffel transformation for simply connected unbounded domain. (English summary) **94a:65015**
DeLillo, Thomas K. (*with* Elcrat, Alan R.) A Fornberg-like conformal mapping method for slender regions. (English summary) **94b:30010**
— (*with* Elcrat, Alan R.) Numerical conformal mapping methods for exterior regions with corners. (English summary)
Elcrat, Alan R. *see* **DeLillo, Thomas K., 94b:30010**

Fokin, D. A. *see* **Nasyrov, S. R., 94i:76064**
Gui, Q. Y. *see* **Chuang, J. M.; et al., 94a:65015**
Haas, Roland (*with* Brauchli, Hans) Extracting singularities of Cauchy integrals—a key point of a fast solver for plane potential problems with mixed boundary conditions. (English summary) **94e:65035**
Hoy, Erich On the approximation of the modulus of a quadrilateral. (*see* **94f:00015**)
Hsiung, C. C. *see* **Chuang, J. M.; et al., 94a:65015**
Nasyrov, S. R. (*with* Fokin, D. A.) Justification of the convergence of an approximate method for the conformal mapping of the exterior of an airfoil into the exterior of a disk. (Russian. Russian summary) **94i:76064**

30C35 General theory of conformal mappings

Ba, I. *see* **Goryainov, V. V., 94b:30013**
Chu, Yu Ming Some inequalities for the modular function of a Grötzsch ring. (Chinese. English and Chinese summaries) **94m:30016**
Chuaqui, Martin (*with* Osgood, Brad) Sharp distortion theorems associated with the Schwarzian derivative. **94g:30005**
Doyle, Peter (*with* He, Zheng-Xu; Rodin, Burt) Second derivatives of circle packings and conformal mappings. (English summary) **94m:30017**
Goryainov, V. V. (*with* Ba, I.) Semigroup of conformal mappings of the upper half-plane into itself with hydrodynamic normalization at infinity. (Russian. Russian and Ukrainian summaries) **94b:30013**
Haruki, Hiroshi (*with* Rassias, Themistocles M.) A new invariant characteristic property of Möbius transformations from the standpoint of conformal mapping. (English summary) **94m:30018**
Hayman, Walter K. Integrals of subharmonic functions along two curves. (English summary) **94k:30011**
He, Zheng-Xu (*with* Rodin, Burt) Convergence of circle packings of finite valence to Riemann mappings. (English summary) **94m:30019**
— *see also* **Doyle, Peter; et al., 94m:30017**
Karupu, E. V. Inversion of Kellogg-type theorems for integral moduli of smoothness. (Russian. Russian summary) (*see* **93m:00019**)
Kim, Seong-A. (*with* Minda, David) The hyperbolic and quasihyperbolic metrics in convex regions. **94h:30005**
Krzyż, Jan G. Some remarks on the maxima of inner conformal radius. (English summary) **94m:30020**
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Luh, Wolfgang Universal functions and conformal mappings. (English summary) **94k:30012**
Ma, Wan Cang (*with* Minda, David) Spherical linear invariance and uniform local spherical convexity. (English summary) **94f:30009**
Maier, F. F. Conditions for the univalence of analytic functions in certain classes of domains. II. (Russian) **94j:30004**
Mejía, Diego (*with* Minda, David) Hyperbolic geometry in hyperbolically k-convex regions. **94d:30007**
Minda, David *see* **Mejía, Diego, 94d:30007**; **Ma, Wan Cang, 94f:30009** *and* **Kim, Seong-A., 94h:30005**
Osgood, Brad *see* **Chuaqui, Martin, 94g:30005**
Rassias, Themistocles M. *see* **Haruki, Hiroshi, 94m:30018**
Rodin, Burt *see* **Doyle, Peter; et al., 94m:30017** *and* **He, Zheng-Xu, 94m:30019**
Rogers, James T., Jr. Rotations of simply-connected regions and circle-like continua. **94a:30007**
Shiba, Masakazu The Euclidean, hyperbolic, and spherical spans of an open Riemann surface of low genus and the related area theorems. **94f:30010**
Stanoyevitch, Alexander Arclength formulas in conformal mapping. **94d:30008**
Walden, Byron L. L^p-integrability of derivatives of Riemann mappings on Ahlfors-David regular curves. (English summary) **94m:30022**
Yamashita, Shinji The peak sets. (English summary) **94m:30023**
— The Poincaré density, Lipschitz continuity, and superharmonicity. (English summary) **94d:30009**
Yang, Wei Qi On boundary correspondence in conformal mapping. (Chinese summary) **94d:30010**

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Astala, Kari (*with* Fernández, J. L.; Rohde, Steffen) Quasilines and the Hayman-Wu theorem. **94m:30044**
Brownstein, K. R. *see* **Kleban, P.; et al., 94i:26009**
Chuaqui, Martin The Schwarzian derivative and quasiconformal reflections on S^n. (English summary) **94a:53036**
Dolzhenko, E. P. D. E. Men'shov's work on the theory of analytic functions and the current state of monogeneity theory. (Russian. Russian summary) **94d:30002**
Fernández, J. L. *see* **Astala, Kari; et al., 94m:30044**
Forelli, Frank The theorem of F. and M. Riesz for unbounded measures. (English summary) **94f:28014**
Kleban, P. (*with* Brownstein, K. R.; Vassileva, I.) Real-function inequalities from conformal maps. (English summary) **94i:26009**
Kwon, Ki-Ho On the growth of meromorphic functions of infinite order. **94f:30039**
Li, You Cai Boundary behavior and distortion estimate in conformal mapping. **94g:30018**
Li, Zhong A new explicit bound in Landau's theorem. (English summary) **94d:30018**
Rohde, Steffen *see* **Astala, Kari; et al., 94m:30044**
Silverman, Herb Convex subfamilies of Schwarz functions. (English summary) **94f:30021**
Tlyusten, S. R. Multivalent conformal mappings with a composite free boundary. (Russian) **94b:30011**
Vassileva, I. *see* **Kleban, P.; et al., 94i:26009**

30C40 Kernel functions and applications

Bell, Steven R. ★ The Cauchy transform, potential theory, and conformal mapping. **94k:30013**
Egorov, I. P. (*with* Egorova, L. I.) On kernel functions and homothetic transformations. (Russian) (*see* **94k:53002**)
Egorova, L. I. *see* **Egorov, I. P., (94k:53002)**
Jakóbczak, Piotr The stability of the L^2-angles for plane domains. (English summary) **94h:30006**
McCullough, Scott (*with* Shen, Li-Chien) On the Szegő kernel of an annulus. (English summary) **94j:30005**
Shen, Li-Chien *see* **McCullough, Scott, 94j:30005**
Uehara, Masahiro On the weighted Szegő L-kernels. (English summary) **94k:30014**
Zhu, Ke He A Forelli-Rudin type theorem with applications. **94a:30008**

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Alpay, Daniel A theorem on reproducing kernel Hilbert spaces of pairs. (English summary) **94b:46035**
Böttcher, Albrecht (*with* Wolf, Hartmut) Galerkin-Petrov methods for Bergman space Toeplitz operators. (English summary) **94c:47038**
Krzyż, Jan G. Fredholm eigenvalues and complementary Bergman spaces. **94e:30016**
Mateljević, M. (*with* Pavlović, Miroslav) Some inequalities of isoperimetric type concerning analytic and subharmonic functions. (English summary) **94g:30032**
Pavlović, Miroslav *see* **Mateljević, M., 94g:30032**
Peetre, Jaak Moebius invariant function spaces—the case of hyperbolic space. (English summary) **94d:46026**
Quiggin, Peter For which reproducing kernel Hilbert spaces is Pick's theorem true? (English summary) **94a:47026**
Wolf, Hartmut *see* **Böttcher, Albrecht, 94c:47038**

30C45 Special classes of univalent and multivalent functions (starlike, convex, bounded rotation, etc.)

Adhikary, Abir Kumar On some classes of Ruscheweyh derivatives of univalent functions. I, II.
— (*with* Chatterjea, S. K.) Some criteria for univalency.
— (*with* Chatterjea, S. K.) On a unified presentation of certain classes of starlike and convex functions with negative coefficients.
— Extensions of a unified presentation of certain classes of starlike and convex functions with negative coefficients.
— Unification of certain classes of starlike and convex functions with negative coefficients.
Ahuja, O. P. Hadamard products of analytic functions defined by Ruscheweyh derivatives. (English summary) **94j:30006**
— On the generalised Ruscheweyh class of analytic functions of complex order. (English summary) **94h:30007**
— (*with* Jahangiri, M.; Silverman, Herb; Silvia, E. M.) Perturbations of classes of functions and their related dual spaces. **94d:30011**
— Families of analytic functions related to Ruscheweyh derivatives and subordinate to convex functions. (English summary) **94i:30008**
— Hadamard products and neighbourhoods of spirallike functions. (English summary) **94j:30007**
Ali, Rosihan M. On a starlikeness problem of Mocanu. (English summary) **94d:30012**
Altıntaş, Osman (*with* Ertekin, Yüksel) A new subclass of analytic functions with negative coefficients. (English summary) **94h:30008**
— (*with* Owa, Shigeyoshi) Majorizations and quasi-subordinations for certain analytic functions. **94f:30011**
Aouf, M. K. (*with* Darwish, H. E.) On a class of analytic and multivalent functions involving fractional calculus. I. (English summary) **94g:30006**
— (*with* Darwish, H. E.) On certain class of univalent functions and an application of the fractional calculus. (English summary) **94g:30007**
— (*with* Darwish, H. E.) Certain classes of meromorphic univalent functions with positive coefficients. (English summary) **94k:30015**
— New criteria for multivalent meromorphic starlike functions of order alpha. (English summary) **94d:30013**
— *see also* **Owa, Shigeyoshi, 94m:30029**
Ashok Kumar, G. (*with* Reddy, G. L.) Certain class of prestarlike functions. (English summary) **94a:30009**
Bajpai, S. K. A characterization for alpha convex functions. (English summary) **94j:30008**
Balasubrahmanyam, P. *see* **Murugusundaramoorthy, G.; et al., 94k:30028**
Balasubramanian, Ramachandran (*with* Karunakaran, V.; Ponnusamy, S.) A proof of Hall's conjecture on starlike mappings. (English summary) **94f:30012**
Bao, Ge Jun (*with* Ling, Yi) A subclass of starlike functions. (Chinese. English and Chinese summaries)
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Owa, Shigeyoshi (*with* Srivastava, Hari M.) Analytic solution of a class of Briot-Bouquet differential equations. (English summary) **94f:34018**
Ponnusamy, S. On starlikeness of certain integral transforms. **94b:30029**
Selinger, Valeria A subordination theorem and its consequences. (Romanian. English summary)
Silverman, Herb Starlike and convexity properties for hypergeometric functions. (English summary) **94b:33014**
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Zyskowska, Krystyna *see* **Jakubowski, Zbigniew Jerzy, 94b:30020**

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New Developments in Univalent Functions ★ Tan'yoo kansūron no atarashii tenkai ni tsuite. [New developments in univalent functions] **94i:30002**

30C50 Coefficient problems for univalent and multivalent functions

Jakubowski, Zbigniew Jerzy (*with* Zyskowska, Krystyna) On an estimate of some functional in the class of bounded univalent functions. (English summary) **94b:30020**
— (*with* Zyskowska, Krystyna) On an estimate of a functional in the class of holomorphic univalent functions. (English summary) **94i:30016**
Jokinen, Olli (*with* Tammi, Olli) On determining the points of the second coefficient body (a_4, a_3, a_2) for bounded real univalent functions. **94m:30038**
Kuz'mina, G. V. Extremal partitioning problems and estimates for the coefficients in the class $\Sigma(r)$. (Russian) **94b:30021**
Menke, Klaus Coefficient estimates for functions univalent in an annulus. (English summary) **94g:30016**
Nikol'skii, N. K. (*with* Vasyunin, V. I.) Quasi-orthogonal Hilbert space decompositions and estimates of univalent functions. II. **94i:30017**
Prokhorov, D. V. Even coefficient estimates for bounded univalent functions. (English summary) **94k:30039**
Srinivas, V. Univalent functions with univalent Gelfond-Leont'ev derivatives. (English and Italian summaries) **94m:30039**
Tammi, Olli *see* **Jokinen, Olli, 94m:30038**
Vasyunin, V. I. *see* **Nikol'skii, N. K., 94i:30017**
Zemyan, Stephen M. On the coefficient problem for the Schwarzian derivative. (English summary) **94c:30021**
— On the Schwarzian coefficients of univalent functions. (English summary) **94f:30024**
— Estimates of logarithmic coefficients of univalent functions. (English summary) **94h:30024**
— On the Schwarzian coefficients of the Koebe transform of a univalent function. (English summary) **94b:30022**
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Ahuja, O. P. On the generalised Ruscheweyh class of analytic functions of complex order. (English summary) **94h:30007**
Deiermann, Paul Diameter problems for univalent functions with quasiconformal extension. (English summary) **94k:30053**
Jakubowski, Zbigniew Jerzy (*with* Szwankowski, Andrzej) On the minimum of the functional $a_2^m(a_3 - \alpha a_2^2)$ in the class of holomorphic and univalent functions with real coefficients. (English and Polish summaries)
Kortram, Ronald A. Coefficients of bounded nonvanishing functions. **94k:30022**
Li, Zhong A new explicit bound in Landau's theorem. (English summary) **94d:30018**
Livingston, Albert E. The class of meromorphic multivalent starlike functions. (English summary) **94a:30011**
Ma, Wan Cang (*with* Owa, Shigeyoshi) Strongly starlike functions. (English summary) **94d:30019**
Noor, Khalida Inayat Quasi-convex functions of complex order. (English summary) **94c:30013**
Owa, Shigeyoshi *see* **Ma, Wan Cang, 94d:30019**
Perera, S. (*with* Wilken, D. R.) On coefficient domination for some classes of analytic functions. (English summary) **94b:30018**
Shiga, Hiroshige (*with* Tanigawa, Harumi) Grunsky's inequality and its applications to Teichmüller spaces. (English summary) **94i:30040**
Silverman, Herb Derivative bounds for univalent functions. (English summary) **94d:30027**
Szal, Barbara Some classes of functions that are p-valent in the disk. (Russian. English, Russian and Polish summaries) **94m:30035**
Szwankowski, Andrzej *see* **Jakubowski, Zbigniew Jerzy**
Tanigawa, Harumi *see* **Shiga, Hiroshige, 94i:30040**
Todorov, Pavel G. On the coefficients of the univalent functions of the Nevanlinna classes N_1 and N_2. **94h:30021**
— On the coefficients of the univalent functions of the classes N_1 and N_2. (English and Polish summaries) **94k:30036**
Wilken, D. R. *see* **Perera, S., 94b:30018**
Yang, Ding Gong On integrals of Bazilevič functions. (English summary) **94c:30019**
Zemyan, Stephen M. On some integral representational formulas for Schwarzian coefficients with an application to number theory. (English summary) **94a:30020**
Zyskowska, Krystyna On an estimate of some functional in the class of odd bounded univalent functions. (English and Polish summaries) **94h:30023**

30C55 General theory of univalent and multivalent functions

Abdulhadi, Z. (*with* Hengartner, Walter) Univalent logharmonic extensions onto the unit disk or onto an annulus. (English summary) **94h:30025**
Arslanov, F. Kh. (*with* Nasyrov, S. R.) Some generalizations of Becker's univalence conditions for analytic functions. (Russian) **94k:30040**
Aseev, V. V. On the Möbius property of topological embeddings that preserve conformal moduli. (Russian) **94f:30025**
Avcı, Y. (*with* Złotkiewicz, E.) An extremal problem for univalent functions. (English and Turkish summaries) **94m:30040**
Avkhadiev, F. G. The Minkowski functional over ranges of values of the logarithm of the derivative, and univalence conditions. (Russian) **94m:30041**
Chuev, V. P. (*with* Shabalina, S. B.) Sufficient conditions for the univalence of functions, analytic in unbounded domains with boundaries, for which the ratio of arc length to chord is finite. (Russian) **94k:30041**
Drăghici, Eugen An improvement of Becker's condition of univalence. **94i:30018**
Hengartner, Walter *see* **Abdulhadi, Z., 94h:30025**
Kazantsev, A. V. On the inner radius for infinite domains. (Russian)
Kim, Seong-A. (*with* Minda, David) Two-point distortion theorems for univalent functions. (English summary) **94m:30042**
Minda, David *see* **Kim, Seong-A., 94m:30042**
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Ovesea, H. A generalization of the univalence criteria of Becker and of Nehari. I. (Romanian summary)
Pascu, N. N. (*with* Scheiber, E.) A numerical problem in a univalence criterion. (Romanian summary)
Pescar, V. The sufficient conditions for univalency of the solution of the inverse boundary problem. (Romanian summary)
Radomir, Irinel An extension of Becker's criterion for univalence. (French summary)
Scheiber, E. *see* **Pascu, N. N.**
Shabalina, S. B. *see* **Chuev, V. P., 94k:30041**
Solynin, A. Yu. Boundary distortion and extremal problems in some classes of univalent functions. (Russian. Russian summary) **94g:30017**
Tan, De Lin Quasiconformal extension and univalency criteria. **94c:30022**
Yamashita, Shinji The Schwarzian derivative and local maxima of the Bloch derivative. (English summary) **94a:30019**
Zemyan, Stephen M. On some integral representational formulas for Schwarzian coefficients with an application to number theory. (English summary) **94a:30020**
Zhang, Yu Lin Some recent developments in problems about extreme points and support points in geometric function theory. (Chinese. English summary) **94m:30043**
— Univalent harmonic mappings. (Chinese. English and Chinese summaries) **94k:30042**
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Bell, Steven R. ★ The Cauchy transform, potential theory, and conformal mapping. **94k:30013**
Howison, S. D. *see* **Khokhlov, Yu. E.; et al., 94m:76123**
Huntingford, C. *see* **Khokhlov, Yu. E.; et al., 94m:76123**
Khokhlov, Yu. E. (*with* Howison, S. D.; Huntingford, C.; Ockendon, J. R.; Lacey, A. A.) A model for nonsmooth free boundaries in Hele-Shaw flows. **94m:76123**
Lacey, A. A. *see* **Khokhlov, Yu. E.; et al., 94m:76123**
Li, Zhong A new explicit bound in Landau's theorem. (English summary) **94d:30018**
Maier, F. F. Conditions for the univalence of analytic functions in certain classes of domains. II. (Russian) **94j:30004**
Miazga, J. (*with* Wesołowski, A.) Some generalization on a sufficient condition of the n-valence of functions. **94d:30020**
Noor, Khalida Inayat On a new class of univalent functions. (English summary) **94a:30012**
Ockendon, J. R. *see* **Khokhlov, Yu. E.; et al., 94m:76123**
Rønning, Frode Convolution theorems proved by duality theory. (English summary) **94d:30025**
Silverman, Herb Convex subfamilies of Schwarz functions. (English summary) **94f:30021**
— Radii problems for the convolution of univalent functions. **94d:30028**
Wesołowski, A. *see* **Miazga, J., 94d:30020**
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Zhou, Ji² (*with* Xiao, Ping An) The valence of the mean of univalent functions. (Chinese. English and Chinese summaries)

30C62 Quasiconformal mappings in the plane

Anderson, G. D. (*with* Lehtinen, Matti; Vuorinen, Matti) Conformal invariants in the punctured disk. (English summary) **94k:30043**
Andreian Cazacu, Cabiria (*with* Stanciu, Victoria) Normal families of quasiconformal homeomorphisms. I.
— (*with* Stanciu, Victoria) Normal families of quasiconformal homeomorphisms. II.
Astala, Kari (*with* Fernández, J. L.; Rohde, Steffen) Quasilines and the Hayman-Wu theorem. **94m:30044**
— (*with* Hag, Kari; Hag, Per; Lappalainen, Vesa) Lipschitz classes and the Hardy-Littlewood property. (English summary) **94h:30026**
Chuaqui, Martin (*with* Osgood, Brad) The Schwarzian derivative and conformally natural quasiconformal extensions from one to two to three dimensions. **94d:30031**
— On a theorem of Nehari and quasidiscs. (English summary) **94f:30026**

Fernández, J. L. *see* **Astala, Kari; et al., 94m:30044**
Göktürk, Zerrin Area theorem for p-valent quasimeromorphic functions. (English and Turkish summaries) **94h:30027**
Gol'berg, A. L. (*with* Kud'yavin, V. S.) On extremal mappings of plane annuli. (Russian. Russian summary) (*see* **93m:00019**)
Gong, Zhi Min *see* **Wang, Jian, 94k:30048**
Gordienko, V. M. Boundary properties of conformal and quasiconformal mappings of polygons. (Russian. Russian summary) **94c:30023**
Hag, Kari *see* **Astala, Kari; et al., 94h:30026**
Hag, Per *see* **Astala, Kari; et al., 94h:30026**
He, Xing Gang Uniform domains and quasiconformal mappings. (Chinese. Chinese summary) **94c:30024**
Kirsch, Siegfried Über die Veränderung konformer Gebietsgrößen bei quasikonformer Abbildung. (German summary) [Variation in conformal domain parameters in quasiconformal mapping] **94i:30019**
— Über ein Extremalproblem bei im Mittel quasikonformen Abbildungen. (German summary) [On an extremum problem for maps quasiconformal in the mean] **94k:30044**
— Weitere Bemerkungen zu Extremalproblemen bei im Mittel quasikonformen Abbildungen. (German summary) [Further remarks on extremum problems for mappings quasiconformal in the mean] **94k:30045**
Krushkal', S. L. Quasiconformal extremals of nonregular functionals. (English summary) **94b:30023**
Kud'yavin, V. S. *see* **Gol'berg, A. L., (93m:00019)**
Lappalainen, Vesa *see* **Astala, Kari; et al., 94h:30026**
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Li, You Cai Boundary behavior and distortion estimate in conformal mapping. **94g:30018**
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Partyka, Dariusz Generalized harmonic conjugation operator. (English summary) **94g:30019**
— Approximation of the Hersch-Pfluger distortion function. (English summary) **94k:30046**
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Rohde, Steffen *see* **Astala, Kari; et al., 94m:30044**
Ryazanov, V. I. Solution of the Reich-Walczak problem on Belinskii-Lavrent'ev conformality. (Russian. Russian and Ukrainian summaries) **94c:30025**
— Convergence of characteristics, the Fourier transformation, and the Reich-Walczak problem. (Russian) **94f:30027**
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Sugawa, Toshiyuki A class of norms on the spaces of Schwarzian derivatives and its applications. **94k:30047**
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Wang, Jian (*with* Gong, Zhi Min) A generalization of the Beurling-Ahlfors extension. (Chinese. English and Chinese summaries) **94k:30048**
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Chuev, V. P. (*with* Shabalina, S. B.) Sufficient conditions for the univalence of functions, analytic in unbounded domains with boundaries, for which the ratio of arc length to chord is finite. (Russian) **94k:30041**
Cima, Joseph A. (*with* Livingston, Albert E.) Nonbasic harmonic maps onto convex wedges. (English summary) **94k:30056**
Doyle, Peter (*with* He, Zheng-Xu; Rodin, Burt) Second derivatives of circle packings and conformal mappings. (English summary) **94m:30017**
Fang, Ai Nong Conditions for quasiconformal extensions and representation theorems for universal Teichmüller spaces. (Chinese. English summary) **94f:30014**
Gamelin, Theodore W. *see* **Carleson, Lennart, 94h:30033**
Ghamsari, Manouchehr Sobolev and quasiconformal extension domains. **94a:26032**
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Krzyż, Jan G. Fredholm eigenvalues and complementary Hardy spaces. (Polish summary) **94g:30037**
Liu, Wen Bin (*with* Barrett, John W.) Higher-order regularity for the solutions of some degenerate quasilinear elliptic equations in the plane. (English summary) **94g:35103**
Livingston, Albert E. *see* **Cima, Joseph A., 94k:30056**
Maier, F. F. Conditions for the univalence of analytic functions in certain classes of domains. II. (Russian) **94j:30004**
Minsky, Yair N. On rigidity, limit sets, and end invariants of hyperbolic 3-manifolds. (English summary) **94m:57029**
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Shabalina, S. B. *see* **Chuev, V. P., 94k:30041**
Tan, De Lin Quasiconformal extension and univalency criteria. **94c:30022**
Yin, Yong Cheng Some properties of universal Teichmüller spaces. (Chinese. English and Chinese summaries) **94m:30087**

30C65 Quasiconformal mappings in $\mathbf{R}^n$, other generalizations

Anderson, G. D. (*with* Vamanamurthy, M. K.; Vuorinen, Matti) Conformal invariants, quasiconformal maps, and special functions. (*see* **94c:30030**)
— (*with* Vamanamurthy, M. K.; Vuorinen, Matti) Inequalities for quasiconformal mappings in space. (English summary) **94h:30028**
Aseev, V. V. Pairs of domains with a coefficient of quasiconformity equal to unity. (Russian. English and Russian summaries) **94k:30049**
Astala, Kari (*with* Koskela, Pekka) Quasiconformal mappings and global integrability of the derivative. **94c:30026**
Cieślak, Waldemar (*with* Zając, Józef) A differential equation for the distortion function $\Phi_{K,n}$. (English summary) **94c:30027**
Dairbekov, N. S. The concept of a quasiregular mapping of several n-dimensional variables. (Russian) **94d:30032**
Ferrand, J. (*with* Martin, Gaven J.; Vuorinen, Matti) Lipschitz conditions in conformally invariant metrics. (English summary) **94m:30045**
Gehring, F. W. Topics in quasiconformal mappings [MR 89c:30051]. (*see* **94c:30030**)
Heinonen, Juha (*with* Koskela, Pekka) Sobolev mappings with integrable dilatations. (English summary) **94i:30020**
— (*with* Rohde, Steffen) The Gehring-Hayman inequality for quasihyperbolic geodesics. **94j:30019**
— (*with* Koskela, Pekka) A_∞-condition for the Jacobian of a quasiconformal mapping. **94d:30033**
Holopainen, Ilkka (*with* Rickman, Seppo) A Picard type theorem for quasiregular mappings of $\mathbf{R}^n$ into n-manifolds with many ends. **94g:30021**
— (*with* Rickman, Seppo) Quasiregular mappings, Heisenberg group, and Picard's theorem. **94k:30050**
Iwaniec, Tadeusz L^p-theory of quasiregular mappings. (*see* **94c:30030**)
— p-harmonic tensors and quasiregular mappings. **94d:30034**
— (*with* Martin, Gaven J.) Quasiregular mappings in even dimensions. **94m:30046**
Koskela, Pekka Natural weights for the Poincaré inequality. (English summary) **94f:30029**
— (*with* Reitich, Fernando) Hölder continuity of Sobolev functions and quasiconformal mappings. **94k:30051**
— Removable singularities for analytic functions. **94i:30021**
— *see also* **Astala, Kari, 94c:30026; Heinonen, Juha, 94d:30033** *and* **94i:30020**
Kudryavtseva, N. A. A differential property of mappings with a bounded distortion. (Russian. Russian summary) **94d:30035**
Lewis, John L. Picard's theorem and Rickman's theorem by way of Harnack's inequality. (English summary) **94k:30052**
Li, Wei² Uniform domains and the quasihyperbolic metric. (Chinese. Chinese summary) **94b:30025**
Liu, Li Xin A new kind of symmetrization of rings in space. (Chinese. English and Chinese summaries)
Luukkainen, Jouni On the relative Schoenflies theorem. (English summary) **94d:30036**
Martin, Gaven J. *see* **Ferrand, J.; et al., 94m:30045** *and* **Iwaniec, Tadeusz, 94m:30046**
Martio, Olli Partial differential equations and quasiregular mappings. (*see* **94c:30030**)
— (*with* Väisälä, Jussi) Bounded turning and passability. **94i:30022**
Migliaccio, Lucia Some characterizations of Gehring G_p-class. **94g:30022**
Monakhov, V. N. (*with* Selezněv, V. A.) Some properties of quasiconformal dynamical systems in the large. (Russian) **94f:30030**
Partanen, Juha (*with* Väisälä, Jussi) Extension of bi-Lipschitz maps of compact polyhedra. **94i:30023**
Reitich, Fernando *see* **Koskela, Pekka, 94k:30051**
Reshetnyak, Yu. G. On functional classes invariant relative to homotheties. (*see* **94c:30030**)
Rickman, Seppo Picard's theorem and defect relation for quasiregular mappings. (*see* **94c:30030**)
— *see also* **Holopainen, Ilkka, 94g:30021** *and* **94k:30050**
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Selezněv, V. A. *see* **Monakhov, V. N., 94f:30030**
Shlyk, V. A. Metric characteristics of N_p-compacta and removable singularities for the space L^1_p, $p \in (1, \infty)$. (Russian) **94d:30037**
Srebro, Uri Topological properties of quasiregular mappings. (*see* **94c:30030**)
Ukhlov, A. D. Mappings that generate embeddings of Sobolev spaces. (Russian. English and Russian summaries) **94g:30023**
Väisälä, Jussi Free quasiconformality in Banach spaces. II. **94c:30028**
— Domains and maps. (*see* **94c:30030**)
— Free quasiconformality in Banach spaces. III. (English summary) **94c:30029**
— Exhaustions of John domains. (English summary) **94i:30024**
— *see also* **Martio, Olli, 94i:30022** *and* **Partanen, Juha, 94i:30023**
Vamanamurthy, M. K. *see* **Anderson, G. D.; et al., 94h:30028** *and* **(94c:30030)**
Vuorinen, Matti *see* **Anderson, G. D.; et al., 94h:30028; Ferrand, J.; et al., 94m:30045; Anderson, G. D.; et al., (94c:30030)** *and* **Quasiconformal space mappings, 94c:30030**
Zając, Józef Special functions in quasiconformal theory. (English summary) **94f:30031b**
— Functional identities for special functions of quasiconformal theory. (English summary) **94f:30031a**
— *see also* **Cieślak, Waldemar, 94c:30027**
Zhuravlëv, I. V. Sufficient conditions for local quasiconformality for mappings with bounded distortion. (Russian. Russian summary) **94h:30029**
Zorich, V. A. The global homeomorphism theorem for space quasiconformal mappings, its development and related open problems. (English summary) (*see* **94c:30030**)

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Daripa, Prabir A fast algorithm to solve the Beltrami equation with applications to quasiconformal mappings. (English summary) **94e:65034**
David, Guy (*with* Semmes, Stephen) ★ Analysis of and on uniformly rectifiable sets. **94i:28003**
Ghamsari, Manouchehr Sobolev and quasiconformal extension domains. **94a:26032**
He, Xing Gang Change of variables in integrals over domains in space. (Chinese. English and Chinese summaries) **94g:26020**

Heinonen, Juha (*with* Kilpeläinen, Tero; Martio, Olli) ★ Nonlinear potential theory of degenerate elliptic equations. **94e:31003**
Holopainen, Ilkka Positive solutions of quasilinear elliptic equations on Riemannian manifolds. **94d:58161**
Kilpeläinen, Tero *see* **Heinonen, Juha; et al., 94e:31003**
Martio, Olli *see* **Heinonen, Juha; et al., 94e:31003**
Moscariello, Gioconda Weighted Sobolev inequalities associated with quasiregular mappings. (English summary) **94c:46067**
Nakai, Mitsuru Riemannian manifolds with connected Royden harmonic boundaries. **94b:31008**
Partyka, Dariusz Approximation of the Hersch-Pfluger distortion function. (English summary) **94k:30046**
Semmes, Stephen *see* **David, Guy, 94i:28003**
Shlyk, V. A. Normal domains and removable singularities. (Russian. Russian summary) **94m:31005**
Vodop'yanov, S. K. Boundary behaviour of differentiable functions and related topics. **94b:46052**
Zhang, Jin Hao Beltrami equation in high dimensions. **94a:32033**

30C70 Extremal problems for conformal and quasiconformal mappings, variational methods

Bakhtin, A. K. On an extremal problem. (Russian. Russian summary) (*see* **93m:00019**)
Liu, Li Quan Correction to: "On coefficient inequalities for meromorphic univalent functions" [Proc. Amer. Math. Soc. **114** (1992), no. 2, 413–422; MR 92e:30012]. **94f:30032**
Qiu, Song Liang Straightening symmetrization of rings and its application to K-q.c. in space. (English and Chinese summaries) **94d:30038**
Taniguchi, Masahiko Boundary variation and quasiconformal maps of Riemann surfaces. **94b:30026**

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Gorbaĭchuk, V. I. Theorems of Hardy-Littlewood type for components of minimal surfaces in E^3. (Russian. Russian summary) **94h:53012**
Kirsch, Siegfried Über die Veränderung konformer Gebietsgrößen bei quasikonformer Abbildung. (German summary) [Variation in conformal domain parameters in quasiconformal mapping] **94i:30019**
— Über ein Extremalproblem bei im Mittel quasikonformen Abbildungen. (German summary) [On an extremum problem for maps quasiconformal in the mean] **94k:30044**
— Weitere Bemerkungen zu Extremalproblemen bei im Mittel quasikonformen Abbildungen. (German summary) [Further remarks on extremum problems for mappings quasiconformal in the mean] **94k:30045**
Li, Zhong Nonuniqueness of geodesics in infinite-dimensional Teichmüller spaces. II. (English summary) **94h:32037**
Shiga, Hiroshige (*with* Tanigawa, Harumi) Grunsky's inequality and its applications to Teichmüller spaces. (English summary) **94i:30040**
Solynin, A. Yu. Boundary distortion and extremal problems in some classes of univalent functions. (Russian. Russian summary) **94g:30017**
— Some extremal problems for circular polygons. (Russian. English and Russian summaries) **94m:30048**
Tanigawa, Harumi *see* **Shiga, Hiroshige, 94i:30040**
Tanveer, S. Evolution of Hele-Shaw interface for small surface tension. (English summary) **94f:76026**
Wegert, Elias ★ Nonlinear boundary value problems for holomorphic functions and singular integral equations. (English and German summaries) **94b:30049**
Wegmann, Rudolf Extremal problems for harmonic mappings from the unit disc to convex regions. (English summary) **94j:31001**
Zemyan, Stephen M. On the coefficient problem for the Schwarzian derivative. (English summary) **94c:30021**

30C75 Extremal problems for conformal and quasiconformal mappings, other methods

Al-Amiri, H. S. (*with* Bshouty, Daoud) Constraint coefficient problems for subclasses of univalent functions. (English summary) **94g:30024**
Andreian Cazacu, Cabiria (*with* Stanciu, Victoria) Distortion of the level lines of the modulus functions under K-qc mappings. **94m:30047**
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Deiermann, Paul Diameter problems for univalent functions with quasiconformal extension. (English summary) **94k:30053**
Kazantsev, A. V. On a problem related to the extremum of the inner radius. (Russian) **94k:30054**
Kühnau, Reiner Ein Modul-Extremalproblem bei konformen Abbildungen und quasikonform fortsetzbaren Abbildungen. [An extremal module problem for conformal mappings and mappings with quasiconformal extensions] **94b:30027**
Solynin, A. Yu. Geometric properties of extremal partitions and estimates for the moduli of families of curves in an annulus. (Russian. Russian summary) **94h:30030**
— Some extremal problems for circular polygons. (Russian. English and Russian summaries) **94m:30048**
Stanciu, Victoria *see* **Andreian Cazacu, Cabiria, 94m:30047**
Velling, John A. Degeneration of quasicircles: inner and outer radii of Teichmüller spaces. (English summary) **94j:30020**
Yuan, Chun Fang Univalence of analytic solutions to some first-order differential equations. (Chinese. Chinese summary) **94a:30021**

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Anderson, G. D. (*with* Vamanamurthy, M. K.; Vuorinen, Matti) Inequalities for quasiconformal mappings in space. (English summary) **94h:30028**
— (*with* Lehtinen, Matti; Vuorinen, Matti) Conformal invariants in the punctured disk. (English summary) **94k:30043**
Avkhadiev, F. G. The Minkowski functional over ranges of values of the logarithm of the derivative, and univalence conditions. (Russian) **94m:30041**
Bell, Steven R. ★ The Cauchy transform, potential theory, and conformal mapping. **94k:30013**
Chuaqui, Martin (*with* Osgood, Brad) Sharp distortion theorems associated with the Schwarzian derivative. **94g:30005**
Gutlyanskiĭ, V. Ya. (*with* Kopanev, S. A.) Conformal mappings of a disk onto convex domains. (Russian. Russian and Ukrainian summaries) **94f:30016**
Jakubowski, Zbigniew Jerzy (*with* Zyskowska, Krystyna) Meromorphic functions and the Hadamard product. **94i:30010**
Kim, Seong-A. (*with* Minda, David) The hyperbolic and quasihyperbolic metrics in convex regions. **94h:30005**
Kirsch, Siegfried Über ein Extremalproblem bei im Mittel quasikonformen Abbildungen. (German summary) [On an extremum problem for maps quasiconformal in the mean] **94k:30044**
— Weitere Bemerkungen zu Extremalproblemen bei im Mittel quasikonformen Abbildungen. (German summary) [Further remarks on extremum problems for mappings quasiconformal in the mean] **94k:30045**
Kopanev, S. A. *see* **Gutlyanskiĭ, V. Ya., 94f:30016**
Krushkal', S. L. Quasiconformal extremals of nonregular functionals. (English summary) **94b:30023**
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Liu, Li Quan Correction to: "On coefficient inequalities for meromorphic univalent functions" [Proc. Amer. Math. Soc. **114** (1992), no. 2, 413–422; MR 92e:30012]. **94f:30032**
Ma, Wan Cang (*with* Minda, David) Spherical linear invariance and uniform local spherical convexity. (English summary) **94f:30009**
— (*with* Owa, Shigeyoshi) Strongly starlike functions. (English summary) **94d:30019**
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Osgood, Brad *see* **Chuaqui, Martin, 94g:30005**
Owa, Shigeyoshi *see* **Ma, Wan Cang, 94d:30019**
Qiu, Song Liang Some distortion properties of K-quasiconformal mappings and an improved estimate of Mori's constant. (Chinese. Chinese summary) **94b:30024**
Strebel, Kurt The mapping by heights for quadratic differentials in the disk. (English summary) **94j:30018**
Szal, Barbara Some classes of functions that are p-valent in the disk. (Russian. English, Russian and Polish summaries) **94m:30035**
Vamanamurthy, M. K. *see* **Anderson, G. D.; et al., 94h:30028**
Vuorinen, Matti *see* **Anderson, G. D.; et al., 94h:30028** *and* **94k:30043**
Wirths, Karl-Joachim An extremal problem for polynomials with a prescribed value at a given point. (English summary) **94k:30008**
Zemyan, Stephen M. Estimates of logarithmic coefficients of univalent functions. (English summary) **94h:30024**
Zhu, Lai Yi The asymptotic formula of the orthogonal rational function on the unit circle. (English summary) **94j:42039**
Zyskowska, Krystyna *see* **Jakubowski, Zbigniew Jerzy, 94i:30010**

30C80 Maximum principle; Schwarz's lemma, Lindelöf principle, analogues and generalizations; subordination

Dowling, Patrick N. The maximum principle for Banach space valued harmonic functions. (English summary) **94d:30039**
Hayman, Walter K. A problem in Fourier series arising from an isoperimetric inequality. **94k:30055**
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— Some properties of functions in the classes defined by subordinations. (English summary) (*see* **94m:00023**)
— Differential inequalities and differential subordination. (English summary) **94c:30031**
Mocanu, Petru T. On a class of first-order differential subordinations. **94b:30028**
Ponnusamy, S. (*with* Juneja, O. P.) Some applications of first order differential subordinations. (English and Serbo-Croatian summaries) **94g:30025**
— On starlikeness of certain integral transforms. **94b:30029**
Selinger, Valeria A subordination theorem and its consequences. (Romanian. English summary)
Ulanovskiĭ, A. M. On the completely regular growth of analytic functions having maximum on a ray. **94c:30032**
Vagarshakyan, A. A. On the maximum principle. (Russian. English, Russian and Armenian summaries) **94h:30031**
Van Eeuwen, Jeff The discrete Schwarz-Pick lemma for overlapping circles. (English summary) **94j:30021**

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Baouendi, M. S. (*with* Rothschild, Linda Preiss) Unique continuation and a Schwarz reflection principle for analytic sets. **94i:32014**
Beardon, A. F. (*with* Carne, T. K.) A strengthening of the Schwarz-Pick inequality. **94f:30055**
Bogowski, Franciszek (*with* Bucka, Czesława) The problems of majorization of derivatives in the class $S(\alpha, \beta)$. **94c:30007**
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Carne, T. K. *see* **Beardon, A. F., 94f:30055**
Gao, Chun Yi Integral means of certain class of analytic functions. (English summary) **94e:30004**
Hu, Pei Chu (*with* Yang, Chung-Chun) Pseudo volume forms and their applications to holomorphic mappings. **94h:32043**
Krushkal', S. L. Quasiconformal extremals of nonregular functionals. (English summary) **94b:30023**
Ma, Wan Cang (*with* Minda, David) Spherical linear invariance and uniform local spherical convexity. (English summary) **94f:30009**

Miller, Sanford S. (*with* Mocanu, Petru T.) Averaging operators and a generalized Robinson differential inequality. (English summary) **94c:30012**
Minda, David *see* **Ma, Wan Cang, 94f:30009**
Mocanu, Petru T. *see* **Miller, Sanford S., 94c:30012**
Rothschild, Linda Preiss *see* **Baouendi, M. S., 94i:32014**
Xie, Hui Chun A note on the extremum principle for harmonic functions. (Chinese. English and Chinese summaries)
Yamashita, Shinji The peak sets. (English summary) **94m:30023**
Yang, Chung-Chun *see* **Hu, Pei Chu, 94h:32043**

30C85 Capacity and harmonic measure in the complex plane [see also 31A15]

Aharonov, Dov The hexagonal packing lemma and Rodin Sullivan conjecture. **94g:30026**
Belyĭ, V. I. (*with* Kravchuk, E. V.) Some explicit relations for the reduced modulus and harmonic measure. (Russian. Russian and Ukrainian summaries) **94g:30027**
Kravchuk, E. V. *see* **Belyĭ, V. I., 94g:30027**
Sodin, M. L. An elementary proof of Benedicks's and Carleson's estimates of harmonic measure of linear sets. (English summary) **94j:30022**
Vol'berg, A. L. On the harmonic measure of self-similar sets on the plane. **94d:30041**

Items with secondary classifications in 30C85

Andreian Cazacu, Cabiria (*with* Stanciu, Victoria) Distortion of the level lines of the modulus functions under K-qc mappings. **94m:30047**
Eiermann, Michael J. (*with* Varga, Richard S.) Optimal semi-iterative methods applied to SOR in the mixed case. (English summary) **94m:65054**
Gilewicz, Jacek (*with* Pleśniak, Wiesław) Distribution of zeros of sequences of polynomials revisited. (English summary) **94m:30077**
Gotoh, Yasuhiro BMO extension theorem for relative uniform domains. **94d:26016**
Jenkins, James A. On a result of Beurling. **94d:30060**
— On the existence of certain general extremal metrics. II. (English summary) **94h:31002**
Laugesen, Richard Extremal problems involving logarithmic and Green capacity. **94g:31004**
Nguyen Xuan Uy A note on analytic capacity. (English summary) **94a:31001**
Pleśniak, Wiesław *see* **Gilewicz, Jacek, 94m:30077**
Rashkovskiĭ, A. Yu. On the radial projection of a harmonic measure. (Russian) **94g:31002**
Stanciu, Victoria *see* **Andreian Cazacu, Cabiria, 94m:30047**
Stanoyevitch, Alexander Arclength formulas in conformal mapping. **94d:30008**
Sweezy, Caroline The Hausdorff dimension of elliptic and elliptic-caloric measure in $\mathbf{R}^N$, $N \geq 3$. (English summary) **94i:35060**
Varga, Richard S. *see* **Eiermann, Michael J., 94m:65054**
Wolff, Thomas H. Plane harmonic measures live on sets of σ-finite length. **94d:31002**

30C99 None of the above, but in this section

Bakhtin, A. K. *see* **Bakhtina, G. P., (93m:00019)**
Bakhtina, G. P. (*with* Bakhtin, A. K.) A separating transformation and nonoverlapping domains. (Russian. Russian summary) (*see* **93m:00019**)
Bogashov, F. A. Conformal mapping in a three-dimensional complex space. (Russian) **94f:30033**
Cima, Joseph A. (*with* Livingston, Albert E.) Nonbasic harmonic maps onto convex wedges. (English summary) **94k:30056**
Dixon, Robert Two conformal mappings. (English summary) (*see* **94h:00013**)
Feigenbaum, Mitchell J. Riemann maps and world maps. (*see* **94m:00037**)
Livingston, Albert E. *see* **Cima, Joseph A., 94k:30056**
Sun, Dao Chun An improved Ahlfors inequality. (Chinese. English and Chinese summaries) **94d:30042**
Yamashita, Shinji Boundary behaviors of the Poincaré density and its derivatives near a nonisolated boundary point. (English summary) **94m:30049**

Items with secondary classifications in 30C99

FitzGerald, Carl H. *see* **Gong, Sheng, 94g:32004**
Gong, Gui Fu (*with* Liu, Li Quan) On Baernstein's star-function. (Chinese summary) **94m:30053**
Gong, Sheng (*with* FitzGerald, Carl H.) The Schwarzian derivative in several complex variables. (English summary) **94g:32004**
Hurri-Syrjänen, Ritva The John-Nirenberg inequality and a Sobolev inequality in general domains. (English summary) **94e:26035**
Liu, Li Quan *see* **Gong, Gui Fu, 94m:30053**
Pritsker, I. E. On the continuity of harmonically conjugate functions in Jordan domains. (Russian. Russian and Ukrainian summaries) **94b:30048**
Schiff, Joel L. ★ Normal families. (English summary) **94f:30046**
Shapiro, Joel H. ★ Composition operators and classical function theory. **94k:47049**
Xavier, Frederico On the structure of complete simply connected embedded minimal surfaces. (English summary) **94j:53011**

30Dxx Entire and meromorphic functions, and related topics

30D05 Functional equations in the complex domain, iteration and composition of analytic functions [see also 34A20, 39-XX, 58F08, 58F23]

Baloria, M. S. *see* **Singh, Anand Prakash, 94h:30034**
Bergweiler, Walter (*with* Haruta, Mako; Kriete, Hartje; Meier, Hans-Günter; Terglane, Norbert) On the limit functions of iterates in wandering domains. (English summary) **94j:30023**
— Iteration of meromorphic functions. **94c:30033**
— (*with* Yang, Chung-Chun) On the value distribution of composite meromorphic functions. **94d:30043**
— An example concerning factorization of rational functions. **94h:30032**
Branner, Bodil (*with* Hubbard, John H.) The iteration of cubic polynomials. II. Patterns and parapatterns. **94d:30044**
Carleson, Lennart (*with* Gamelin, Theodore W.) ★ Complex dynamics. (English summary) **94h:30033**
Christensen, Jens Peter Reus (*with* Fischer, Pal) Linear independence of iterates and meromorphic solutions of functional equations. (English summary) **94f:30034**
Fischer, Pal *see* **Christensen, Jens Peter Reus, 94f:30034**
Gamelin, Theodore W. *see* **Carleson, Lennart, 94h:30033**
Gross, Fred (*with* Yang, Chung-Chun; Zheng, Jian Hua) On the primeness of $z + \cos\alpha(z)$. **94i:30025**
Hansen, Lowell J. (*with* Shapiro, Harold S.) Graphs and functional equations. (English summary) **94b:30030**
Haruta, Mako *see* **Bergweiler, Walter; et al., 94j:30023**
Hinkkanen, A. Iteration and the zeros of the second derivative of a meromorphic function. (English summary) **94f:30035**
Hua, Xin Hou Julia sets and their applications. (Chinese. English and Chinese summaries) **94k:30057**
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Iserles, Arieh A constructive approach to the Schröder equation. (English summary) **94d:30045**
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Meier, Hans-Günter *see* **Bergweiler, Walter; et al., 94j:30023**
Nakane, Shizuo Connectedness of the tricorn. (English summary) **94k:30058**
Noda, Yoji On the functional equation $f^n = e^{P_1} + \cdots + e^{P_n}$ and rigidity theorems for holomorphic curves. **94k:30059**
Popa, Eugen Morphisms of H-cones and potentials. I. (English summary)
Qiu, Wei Yuan An upper bound estimate for the Hausdorff dimensions of a class of Julia sets. (Chinese. English and Chinese summaries) **94k:30060**
Shapiro, Harold S. *see* **Hansen, Lowell J., 94b:30030**
Singh, Anand Prakash (*with* Baloria, M. S.) Comparative growth of composition of entire functions. (English summary) **94h:30034**
Stallard, Gwyneth M. Meromorphic functions whose Julia sets contain a free Jordan arc. (English summary) **94j:30024**
Steinmetz, Norbert ★ Rational iteration. **94h:30035**
Sun, Jian Wu Factorization of a class of entire functions. (Chinese. English and Chinese summaries) **94h:30036**
Takahasi, Hidenori Remarks on Julia set of an entire transcendental function.
Terglane, Norbert *see* **Bergweiler, Walter; et al., 94j:30023**
Urabe, Hironobu (*with* Yang, Chung-Chun) On unique factorizability of certain composite entire functions. **94h:30037**
Yang, Chung-Chun *see* **Bergweiler, Walter, 94d:30043; Urabe, Hironobu, 94h:30037** *and* **Gross, Fred; et al., 94i:30025**
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Zhou, Wei Min A finiteness theorem for finite transcendental meromorphic functions. (Chinese. English and Chinese summaries) **94f:30036**

Items with secondary classifications in 30D05

Artzy, Rafael Dynamik von Polynomen in Kreisebenen. (German summary) [Dynamics of polynomials in circular planes] **94c:58165**
Auvermann, Harry J. Analytic roots of the period three quadratic recursion polynomial. (English summary) **94g:58183**
Baker, I. N. (*with* Kotus, Janina; Lü, Yi Nian) Iterates of meromorphic functions. IV. Critically finite functions. **94c:58166**
Becker, Paul-Georg Transcendence of the values of functions satisfying generalized Mahler type functional equations. **94g:11054**
— (*with* Bergweiler, Walter) Transcendency of local conjugacies in complex dynamics and transcendency of their values. (English summary) **94i:11051**
Bergweiler, Walter *see* **Becker, Paul-Georg, 94i:11051**
Bielefeld, B. (*with* Fisher, Y.; von Haeseler, Fritz) Computing the Laurent series of the map $\Psi: \mathbf{C} - \overline{D} \to \mathbf{C} - M$. (English summary) **94b:58083**
Branner, Bodil Cubic polynomials: turning around the connectedness locus. **94c:58168**
Cai, Ke Ju (*with* Deng, Xiao Cheng) Recent developments in complex analytic dynamical systems. (Chinese. English and Chinese summaries) **94m:58194**
— *see also* **Deng, Xiao Cheng, 94c:58170**
Canille Martins, J. C. (*with* Marmi, Stefano; Turchetti, Giorgio) Resurgence of a majorant series arising in the normalization of symplectic maps. (English and Italian summaries) **94k:58132**
Davies, K. T. R. (*with* Glasser, M. L.; Davies, R. W.) Periodic orbits generated from conformal mappings. (English summary) **94e:58105**
Davies, R. W. *see* **Davies, K. T. R.; et al., 94e:58105**
Deng, Xiao Cheng (*with* Cai, Ke Ju) The dynamical system of the mapping $z \mapsto e^{az+bz^2}$ ($a, b \in \mathbf{R}$). I. The explosion domains. (Chinese. Chinese summary) **94c:58170**
— *see also* **Cai, Ke Ju, 94m:58194**
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Glasser, M. L. *see* **Davies, K. T. R.; et al., 94e:58105**
von Haeseler, Fritz *see* **Bielefeld, B.; et al., 94b:58083**
Hinkkanen, A. Julia sets of rational functions are uniformly perfect. (English summary) **94b:58084**
— Zeta functions of rational functions are rational. (English summary) **94h:58137**
Katajamäki, Kari (*with* Kinnunen, Liisa; Laine, Ilpo) On the value distribution of some composite meromorphic functions. **94j:30027**

Keller, Karsten The abstract Mandelbrot set—an atlas of abstract Julia sets. **94g:58186**
Kim, Hoi Sub *see* **Kim, Hong Oh**, **94b:28005**
Kim, Hong Oh (*with* Kim, Hoi Sub) Iterations, Denjoy-Wolff points and ergodic properties of point-mass singular inner functions. (English summary) **94b:28005**
Kinnunen, Liisa *see* **Katajamäki, Kari; et al.**, **94j:30027**
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Klein, Michael *see* **Peinke, J.; et al.**, **94g:58189**
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Krauskopf, Bernd Convergence of Julia sets in the approximation of λe^z by $\lambda[1 + (z/d)]^d$. (English summary) **94h:58143**
Kuczma, Marek On a functional equation occurring in astrophysics. (English summary) **94j:39011**
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Lü, Yi Nian *see* **Baker, I. N.; et al.**, **94c:58166**
Lyubich, M. Yu. Back to the origin: Milnor's program in dynamics. **94c:58058**
Makienko, P. M. On measurable field compatible with rational functions. **94g:58187**
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Marmi, Stefano *see* **Canille Martins, J. C.; et al.**, **94k:58132**
Milnor, John Willard Remarks on iterated cubic maps. (English summary) **94c:58096**
Nishizawa, Kiyoko (*with* Fujimura, Masayo) Families of rational maps and convergence basins of Newton's method. **94c:58173**
— (*with* Nojiri, Asako) Center curves in the moduli space of the real cubic maps. **94h:58094**
Nojiri, Asako *see* **Nishizawa, Kiyoko**, **94h:58094**
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Peinke, J. (*with* Klein, Michael; Parisi, J.; Kittel, A.; Rössler, Otto E.) On the fractality of basin boundaries. (English summary) **94g:58189**
Petersen, Carsten Lunde A PLY inequality for Kleinian groups. (English summary) **94g:30042**
— On the Pommerenke-Levin-Yoccoz inequality. (English summary) **94k:58122**
Reich, Ludwig On linear relations among analytic functions arising in the theory of sum form equations and in the theory of linear differential equations. **94k:39050**
Ren, Fu Yao *see* **Zhou, Wei Min**, **94c:58174** *and* **94c:58175**
Rochberg, Richard (*with* Rubel, Lee A.) A functional equation. (English summary) **94f:39009**
Rogers, James T., Jr. Indecomposable continua, prime ends, and Julia sets. **94f:54070**
Rössler, Otto E. *see* **Peinke, J.; et al.**, **94g:58189**
Rubel, Lee A. Some research problems about algebraic differential equations. II. **94c:34003**
— *see also* **Rochberg, Richard**, **94f:39009**
Sullivan, Dennis P. Renormalization, Zygmund smoothness and the Epstein class. **94c:58097**
Tan, Lei Voisinages connexes des points de Misiurewicz. (English and French summaries) [Connected neighborhoods of Misiurewicz points] **94a:58165**
Turchetti, Giorgio *see* **Canille Martins, J. C.; et al.**, **94k:58132**
Wirths, Karl-Joachim Semi-dual functions and nonvanishing entire functions. **94e:30007**
Zhou, Jian Ying A simplified proof of Sullivan's no wandering domain theorem. (Chinese. Chinese summary) **94m:58196**
Zhou, Wei Min (*with* Ren, Fu Yao) A dynamical system formed by a set of rational functions. (English summary) **94c:58174**
— (*with* Ren, Fu Yao) An invariant measure for the dynamical system formed by a set of rational functions. (English summary) **94c:58175**

30D10 Representations of entire functions by series and integrals

Csordas, George (*with* Smith, Wayne Stewart; Varga, Richard S.) Lehmer pairs of zeros, the de Bruijn-Newman constant Λ, and the Riemann hypothesis. (English summary) **94k:30061**
Kasana, H. S. (*with* Kumar, Devendra; Srivastava, G. S.) On the growth of coefficients of entire functions. (English and Italian summaries) **94b:30031**
Korobeĭnik, Yu. F. Maximal and *r*-sufficient sets. Applications to entire functions. II. (Russian) **94f:30037**
Kumar, Devendra *see* **Kasana, H. S.; et al.**, **94b:30031**
Norfolk, T. S. (*with* Ruttan, Arden; Varga, Richard S.) A lower bound for the de Bruijn-Newman constant Λ. II. (English summary) **94k:30062**
Ruttan, Arden *see* **Norfolk, T. S.; et al.**, **94k:30062**
Smith, Wayne Stewart *see* **Csordas, George; et al.**, **94k:30061**
Srivastava, G. S. *see* **Kasana, H. S.; et al.**, **94b:30031**
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Items with secondary classifications in 30D10

Autret, L. (*with* Emamirad, Hassan) Entire propagator. **94f:47093**
Brabec, Jiří A note on one of the Bernstein theorems. (English and Czech summaries) **94i:41002**
Clunie, J. G. (*with* Edrei, A.) Zeros of successive derivatives of analytic functions having a single essential singularity. II. **94i:30005**
Csordas, George (*with* Odlyzko, Andrew M.; Smith, Wayne Stewart; Varga, Richard S.) A new Lehmer pair of zeros and a new lower bound for the de Bruijn-Newman constant Λ. (English summary) **94k:11098**
Edrei, A. *see* **Clunie, J. G.**, **94i:30005**
Emamirad, Hassan *see* **Autret, L.**, **94f:47093**
Favorov, S. Yu. *see* **Logvinenko, V. N.**, **94d:32003**
Hinsen, G. Irregular sampling of bandlimited L^p-functions. (English summary) **94e:41006**
Logvinenko, V. N. (*with* Favorov, S. Yu.) Cartwright-type theorems and real sets of uniqueness for entire functions of exponential type. (Russian) **94d:32003**
Odlyzko, Andrew M. *see* **Csordas, George; et al.**, **94k:11098**
Oskolkov, V. A. On the basis property of some polynomial systems in spaces of entire functions of exponential type. (Russian. Russian summary) **94m:30011**
Sekerin, A. B. On the reducibility of zero sets of entire functions of several variables. (Russian. English and Russian summaries) **94d:32004**
Smith, Wayne Stewart *see* **Csordas, George; et al.**, **94k:11098**
Varga, Richard S. *see* **Csordas, George; et al.**, **94k:11098**

30D15 Special classes of entire functions and growth estimates

Abanin, A. V. Geometric criteria for representing analytic functions by series of generalized exponentials. (Russian) **94d:30047**
Arakelyan, N. U. Approximation by entire functions and analytic continuation. (English summary) **94m:30050**
Bergweiler, Walter (*with* Fuchs, W. H. J.) On the zeros of the second derivative of real entire functions. **94m:30051**
Erëmenko, A. È. (*with* Sodin, M. L.) Parametrization of entire functions of sine-type by their critical values. **94b:30032**
Fuchs, W. H. J. *see* **Bergweiler, Walter**, **94m:30051**
Galimov, I. S. On the representation of entire functions in the linear hull of a system of exponentials by series. (Russian) (*see* **94f:00015**)
(Gol'dberg, A. A.) *see* **Maergoiz, L. S.**, **94f:30038**
Kaz'min, Yu. A. Variations on the theme of the Carlson theorem. (Russian. Russian summary) **94b:30033**
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— (*with* Smith, Wayne Stewart; Varga, Richard S.) Lehmer pairs of zeros, the de Bruijn-Newman constant Λ, and the Riemann hypothesis. (English summary) **94k:30061**
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Gupta, J. S. (*with* Bhola, D. K.) Maximum term function of entire Dirichlet series. (English and Turkish summaries) **94m:30008**
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Jorgenson, Jay (*with* Lang, Serge) On Cramér's theorem for general Euler products with functional equation. **94k:11101**
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— An estimate for the quotient of functions that are holomorphic on an algebraic set. (Russian. Russian summary) **94m:32002**
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Strochik, N. N. Some Tauberian theorems for entire functions with negative zeros. (Russian. Russian summary) **94m:30055**
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Gross, Fred (*with* Yang, Chung-Chun; Zheng, Jian Hua) On the primeness of $z + \cos\alpha(z)$. **94i:30025**
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Toda, Nobushige On the frequency of zeros of solutions of higher order linear differential equations with entire coefficients. (English summary) **94m:34015**

Urabe, Hironobu Some remarks on factorization of entire functions. (English summary) **94i:30028**

Wang, Shu Pei On the sectorial oscillation theory of $f'' + A(z)f = 0$. **94m:34016**

Wu, Sheng Jian Further results on Borel removable sets of entire functions. (English summary) **94k:30069**

Yang, Chung-Chun *see* **Bergweiler, Walter**, **94d:30043** *and* **Gross, Fred; et al., 94i:30025**

Yang, Le Some recent results and problems in the theory of value-distribution. **94i:30029**

Yi, Hong Xun Meromorphic functions with common preimages. II. (Chinese. English and Chinese summaries) **94j:30026**

Zhang, Xue Lian *see* **Sun, Dao Chun**, **94b:30036**

Zheng, Jian Hua *see* **Gross, Fred; et al., 94i:30025**

30D40 Cluster sets, prime ends, boundary behavior

Bravo, Francisca (*with* Girela, Daniel) Some results of Lindelöf type involving the segmental behaviour of holomorphic functions. (English summary) **94k:30082**

Gardiner, Stephen J. Boundary behaviour of holomorphic and harmonic functions. (English summary) **94d:30059**

Gavrilov, V. I. (*with* Oganesyan, Zh. S.) Boundary singularities of normal set mappings under general boundary approach. (English summary) **94h:30043**

Girela, Daniel *see* **Bravo, Francisca, 94k:30082**
Jenkins, James A. On a result of Beurling. **94d:30060**
Mui, A. P. Zero tangential limits of bounded functions that are analytic in a half-plane. (Russian) (*see* **94i:46001**)
Oganesyan, Zh. S. *see* **Gavrilov, V. I., 94h:30043**
Rockett, Andrew M. (*with* Szüsz, Peter) On tangential regions for power series. **94h:30044**
Rohde, Steffen The boundary behavior of Bloch functions. **94k:30083**
Szüsz, Peter *see* **Rockett, Andrew M., 94h:30044**

Items with secondary classifications in 30D40

Balk, M. B. (*with* Vasilenkov, V. P.) Boundary properties of polyanalytic functions in Jordan domains. (Russian)
Dzagnidze, O. P. Boundary values of the derivatives of the Poisson integral for a ball and the representation of functions of two variables. (Russian. English summary) **94g:31006**
— Angular limits at the poles of a sphere of the derivatives of the Poisson integral. (Russian. English summary) **94g:31007**
Housworth, Elizabeth Ann Escape rate for 2-dimensional Brownian motion conditioned to be transient with application to Zygmund functions. (English summary) **94h:60120**
Kryakin, Yu. V. On a theorem of Hardy and Littlewood. (Russian) **94d:30063**
Rogers, James T., Jr. Indecomposable continua, prime ends, and Julia sets. **94f:54070**
Vagarshakyan, A. A. On the maximum principle. (Russian. English, Russian and Armenian summaries) **94h:30031**
Vasilenkov, V. P. *see* **Balk, M. B.**

30D45 Bloch functions, normal functions, normal families

Aulaskari, Rauno (*with* Lappan, Peter) Some characterizations of semi-Bloch functions. **94a:30025**
Bonsall, F. F. On the sets of Bergman kernels that decompose $L^1_a(D)$. (English summary) **94m:30069**
Chen, Huai Hui (*with* Gu, Yong Xing) Improvement of Marty's criterion and its application. (English summary) **94j:30031**
Colonna, Flavia Extreme points of a convex set of Bloch functions. (English summary) **94g:30031**
— Local normality of meromorphic functions. (English summary) **94f:30045**
Danikas, Nikolaos (*with* Lappan, Peter) On the multiplicative behavior of Bloch functions. (English summary) **94k:30084**
Ghatage, Pratibha G. (*with* Zheng, De Chao) Analytic functions of bounded mean oscillation and the Bloch space. (English summary) **94i:30031**
Gu, Yong Xing *see* **Chen, Huai Hui, 94j:30031**
Ito, Eiji (*with* Yamada, Akira) Estimates for higher order derivatives of Bloch functions. (English summary) **94m:30070**
Lappan, Peter *see* **Aulaskari, Rauno, 94a:30025** *and* **Danikas, Nikolaos, 94k:30084**
Lou, Zeng Jian On Bloch functions. (English summary) **94k:30085**
Minda, David Another approach to Picard's theorem and a unifying principle in geometric function theory. (English summary) **94k:30086**
Schiff, Joel L. ★ Normal families. (English summary) **94f:30046**
Wirths, Karl-Joachim On an extremum problem for Bloch functions. **94h:30045**
Wulan, Hasi (*with* Yan, Li) Characterizations of the weighted normal functions. (Chinese. English summary)
Xiao, Jie[1] Equivalence of Bloch spaces and BMOA spaces. (Chinese. English and Chinese summaries) **94b:30041**
Yamada, Akira *see* **Ito, Eiji, 94m:30070**
Yan, Li *see* **Wulan, Hasi**
Zheng, De Chao *see* **Ghatage, Pratibha G., 94i:30031**

Items with secondary classifications in 30D45

Andreian Cazacu, Cabiria (*with* Stanciu, Victoria) Normal families of quasiconformal homeomorphisms. I.
— (*with* Stanciu, Victoria) Normal families of quasiconformal homeomorphisms. II.
Bishop, Christopher J. An indestructible Blaschke product in the little Bloch space. (English summary) **94j:30032**
Chern, T. Y. Peter Value distribution of little α-Bloch functions in the open unit disk. (English summary) **94g:30028**
Hu, Zhang Jian On BMO_p and Bloch functions. (Chinese. Chinese summary) **94j:46036**
Lahiri, Indrajit (*with* Sharma, Dilip Kumar) Normal families of meromorphic functions. (English summary)
Lou, Zeng Jian Characterizations of Bloch functions on the unit ball of $\mathbf{C}^n$. (English summary) **94b:32007**
Rohde, Steffen The boundary behavior of Bloch functions. **94k:30083**
Sharma, Dilip Kumar *see* **Lahiri, Indrajit**
Stanciu, Victoria *see* **Andreian Cazacu, Cabiria**
Wu, Zhijian The predual and second predual of W_α. (English summary) **94g:46033**
Xiao, Jie[1] Boundedness and compactness for Hankel operators on $A^p(\varphi)$ $(1 \le p < \infty)$. (English and Chinese summaries) **94h:47048**
Yamashita, Shinji The peak sets. (English summary) **94m:30023**
— The Schwarzian derivative and local maxima of the Bloch derivative. (English summary) **94a:30019**

30D50 Blashke products, bounded mean oscillation, bounded characteristic, bounded functions, functions with positive real part

Bagdasaryan, D. T. (*with* Zakharyan, V. S.) On the growth of analytic functions in the unit disk with a finite Dirichlet-type integral. (Russian. Armenian summary) **94c:30042**
Bishop, Christopher J. An indestructible Blaschke product in the little Bloch space. (English summary) **94j:30032**
Bourgain, Jean On the radial variation of bounded analytic functions on the disc. **94d:30061**
Dong, Xin Han Some properties of analytic functions with positive real parts. (Chinese. English and Chinese summaries) **94c:30043**
D'yakonov, K. M. Division and multiplication by inner functions and embedding theorems for star-invariant subspaces. **94k:30087**
Guo, Kun Yu (*with* Zhang, Chao Lun) Remarks on fibers on the Shilov boundary X of H^∞. (Chinese. English and Chinese summaries) **94c:30044**
Izuchi, Keiji Interpolating sequences in the maximal ideal space of H^∞. II. (English summary) **94k:30088**
— Factorization of Blaschke products. **94d:30062**
Lĕvshina, G. D. Some properties of Lipschitz functions in the unit disk and in the unit ball. (Russian) **94f:30048**
— Coefficient multipliers of Lipschitz functions. (Russian. Russian summary) **94f:30047**
Lin, Kai-Ching On the constants in the corona theorem and the ideals of H^∞. (English summary) **94j:30033**
Nicolau, Artur Interpolating Blaschke products solving Pick-Nevanlinna problems. (English summary) **94m:30071**
Shamoyan, F. A. Some remarks on the parametric representation of Nevanlinna-Dzhrbashyan classes. (Russian. Russian summary) **94a:30026**
Stoilov, P. The Taylor coefficients of multipliers of the space BMOA. **94j:30034**
Wang, Jian Gong Properties of step functions on the unit circle. (Chinese. English and Chinese summaries)
Zakharyan, V. S. *see* **Bagdasaryan, D. T., 94c:30042**
Zhang, Chao Lun *see* **Guo, Kun Yu, 94c:30044**

Items with secondary classifications in 30D50

Aleman, Alexandru A conjecture of L. Carleson and applications. **94m:30060**
Cámera, Gerardo A. The nonlinear superposition operator acting on N and BN. (English and Spanish summaries) **94h:47136**
Danikas, Nikolaos (*with* Siskakis, Aristomenis G.) The Cesàro operator on bounded analytic functions. (English summary) **94j:47045**
Dzhvarsheishvili, A. G. Some angular characteristics of analytic functions in the bidisk. (Russian) **94m:32007**
Fuhrmann, P. A. On the Hamiltonian structure in the computation of singular values for a class of Hankel operators. (English summary) **94a:47123**
Ghatage, Pratibha G. (*with* Zheng, De Chao) Analytic functions of bounded mean oscillation and the Bloch space. (English summary) **94i:30031**
Golinskiĭ, L. B. Schur functions, Schur parameters and orthogonal polynomials on the unit circle. (English summary) **94j:42036**
Hu, Ke On Hilbert inequality and its application. (English and Chinese summaries) **94h:26024**
Katsnel'son, V. È. Weighted spaces of pseudocontinuable functions and approximations by rational functions with prescribed poles. (English summary) **94m:30072**
Kim, Jeongook A nonrecursive parametrization of Nevanlinna-Pick interpolants. **94k:30094**
Osipenko, K. Yu. Minimal Blashke [Blaschke] products and optimal quadrature formulae in H^∞. **94e:30014**
Siskakis, Aristomenis G. *see* **Danikas, Nikolaos, 94j:47045**
Tolokonnikov, V. Extremal functions of the Nevanlinna-Pick problem and Douglas algebras. (English summary) **94k:30096**
Wilderotter, Klaus Optimal recovery of bounded analytic functions in an annulus. (English summary) **94d:30072**
Wu, Zhijian The predual and second predual of W_α. (English summary) **94g:46033**
Zheng, De Chao *see* **Ghatage, Pratibha G., 94i:30031**
Zhu, Ke He A Forelli-Rudin type theorem with applications. **94a:30008**

30D55 H^p-classes

Beauzamy, Bernard Estimates for H^2 functions with concentration at low degrees and applications to complex symbolic computation. **94b:30042**
Boricheva, I. A. (*with* Dyn'kin, E. M.) A nonclassical problem of free interpolation. (Russian. Russian summary) **94a:30027**
— (*with* Dyn'kin, E. M.) The Sarason transform in a Sobolev space. (Russian. English and Russian summaries) **94k:30089**
D'yakonov, K. M. Smooth functions and co-invariant subspaces of the shift operator. (Russian. Russian summary) **94c:30045**
Dyn'kin, E. M. *see* **Boricheva, I. A., 94a:30027** *and* **94k:30089**
Essén, Matts Some best constant inequalities for conjugate functions. (English summary) **94b:30043**
Jung, Il Bong (*with* Kim, Yong Chan; Srivastava, Hari M.) The Hardy space of analytic functions associated with certain one-parameter families of integral operators. (English summary) **94h:30046**
Katsnel'son, V. È. Weighted spaces of pseudocontinuable functions and approximations by rational functions with prescribed poles. (English summary) **94m:30072**
Kim, Yong Chan (*with* Srivastava, Hari M.) Some families of generalized hypergeometric functions associated with the Hardy space of analytic functions. (English summary) **94m:30073**
— *see also* **Jung, Il Bong; et al., 94h:30046**
Kryakin, Yu. V. On a theorem of Hardy and Littlewood. (Russian) **94d:30063**
Lou, Zeng Jian (*with* Zhang, Wen Jun) On three problems of Campbell and Leach. (Chinese. English and Chinese summaries) **94m:30074**
Mateljević, M. (*with* Pavlović, Miroslav) Some inequalities of isoperimetric type concerning analytic and subharmonic functions. (English summary) **94g:30032**
Papadimitrakis, Michael Continuity of the operator of best uniform approximation by bounded analytic functions. **94a:30028**
Pavlović, Miroslav *see* **Mateljević, M., 94g:30032**
Peretz, Ronen A majorant problem. **94c:30046**
Poltoratskiĭ, A. G. Boundary behavior of pseudocontinuable functions. (Russian. Russian summary) **94k:30090**
Srivastava, Hari M. *see* **Jung, Il Bong; et al., 94h:30046** *and* **Kim, Yong Chan, 94m:30073**

Stepanyan, S. S. On the properties of Taylor coefficients of functions of the class $H_p(\alpha)$. (Russian. Armenian summary) **94h:30047**
Zhang, Wen Jun *see* **Lou, Zeng Jian, 94m:30074**
Zhong, Le Fan Fractional derivatives and integrals in Bergman spaces. (Chinese. Chinese summary) **94c:30047**

Items with secondary classifications in 30D55

Baratchart, Laurent (*with* Zerner, Martin) On the recovery of functions from pointwise boundary values in a Hardy-Sobolev class of the disk. (English summary) **94d:41002**
Bell, Steven R. ★ The Cauchy transform, potential theory, and conformal mapping. **94k:30013**
Carroll, Tom (*with* Cowen, Carl C.) Compact composition operators not in the Schatten classes. **94c:47045**
Chan, Kit C. (*with* Shields, Allen L.) Zero sets, interpolating sequences, and cyclic vectors for Dirichlet spaces. **94d:46025**
Chen, Jie Cheng (*with* Wang, Si Lei) Comparison between maximal function and square function on positively curved product manifolds. (English summary) **94j:58159**
Cowen, Carl C. *see* **Carroll, Tom, 94c:47045**
Danikas, Nikolaos (*with* Siskakis, Aristomenis G.) The Cesàro operator on bounded analytic functions. (English summary) **94j:47045**
Domínguez, Marisela Mixing coefficient, generalized maximal correlation coefficients, and weakly positive measures. (English summary) **94c:60068**
Duren, Peter L. (*with* Khavinson, Dmitry; Shapiro, Harold S.; Sundberg, Carl) Contractive zero-divisors in Bergman spaces. (English summary) **94c:30048**
Dzhvarsheishvili, A. G. Some angular characteristics of analytic functions in the bidisk. (Russian) **94m:32007**
Gadbois, Steven C. (*with* Sledd, William T.) Carleson measures on spaces of homogeneous type. **94d:42022**
Ghichoff, Alan D. On logarithmic derivatives of functions in a class of starlike mappings. (English summary) **94d:30015**
Hasumi, Morisuke Toeplitz operators acting on generalized functions. (*see* **94d:46004**)
Helton, J. William (*with* Merino, Orlando) Conditions for optimality over H^∞. (English summary) **94j:93023**
Jakšić, Vojkan (*with* Segert, Jan) Exponential approach to the adiabatic limit and the Landau-Zener formula. (English summary) **94g:81040**
Jones, Peter Wilcox (*with* Journé, Jean-Lin) On weak convergence in $H^1(\mathbf{R}^d)$. **94b:42011**
Journé, Jean-Lin *see* **Jones, Peter Wilcox, 94b:42011**
Khavinson, Dmitry *see* **Duren, Peter L.; et al., 94c:30048**
Kislyakov, S. V. Real interpolation of Hardy spaces on the disk and on the bidisc. (English summary) **94m:46039**
Krzyż, Jan G. Fredholm eigenvalues and complementary Hardy spaces. (Polish summary) **94g:30037**
Merino, Orlando *see* **Helton, J. William, 94j:93023**
Osipenko, K. Yu. Minimal Blashke [Blaschke] products and optimal quadrature formulae in H^∞. **94e:30014**
Partington, Jonathan R. Robust control and approximation in the chordal metric. (English summary) **94b:93047**
Pełczyński, Aleksander Nonisomorphism of the disc algebra with spaces of differentiable functions. (English summary) **94b:46081**
Rachkov, A. V. *see* **Vlasov, V. I., 94j:46043a** *and* **94j:46043b**
Sarason, Donald Exposed points in H^1. II. (English summary) **94a:46031**
Segert, Jan *see* **Jakšić, Vojkan, 94g:81040**
Seubert, Steven M. Dissipative operators on quotient spaces of H^2. (English summary) **94a:47055**
— A note on infinitesimal generators of semigroups on $H^2/\varphi H^2$. (English summary) **94c:47050**
Shapiro, Harold S. *see* **Duren, Peter L.; et al., 94c:30048**
Shields, Allen L. *see* **Chan, Kit C., 94d:46025**
Shiga, Hiroshige H^1-BMO duality on Riemann surfaces. **94d:30080**
Siskakis, Aristomenis G. *see* **Danikas, Nikolaos, 94j:47045**
Sledd, William T. *see* **Gadbois, Steven C., 94d:42022**
Srivastava, Hari M. A certain class of generalized hypergeometric functions associated with the Hardy space of analytic functions. (English summary) **94k:33007**
Stessin, Michael I. An extension of a theorem of Hadamard and domination in the Bergman space. (English summary) **94i:30032**
Sundberg, Carl *see* **Duren, Peter L.; et al., 94c:30048**
Vlasov, V. I. (*with* Rachkov, A. V.) Weighted Hardy-type spaces. (Russian) **94j:46043a**
— (*with* Rachkov, A. V.) Correction to: "Weighted Hardy-type spaces". (Russian) **94j:46043b**
Wang, Si Lei *see* **Chen, Jie Cheng, 94j:58159**
Wilderotter, Klaus Optimal recovery of bounded analytic functions in an annulus. (English summary) **94d:30072**
Zerner, Martin *see* **Baratchart, Laurent, 94d:41002**

30D60 Quasi-analytic and other classes of functions

Thilliez, Vincent Quasianalyticité généralisée pour les classes de Carleman holomorphes dans le disque. (English and French summaries) [Generalized quasi-analyticity for holomorphic Carleman classes in the disk] **94k:30091**

Items with secondary classifications in 30D60

Gorina, O. V. Solvability of the convolution equation in the Gevrey class of functions that are analytic in a nonconvex domain. (Russian. Russian summary) **94c:30057**
Korobeĭnik, Yu. F. Some properties of solutions of differential equations with constant coefficients. (Russian. Russian summary) **94g:34008**
Siddiqi, Jamil A. Characterizations of Carleman classes of entire functions and vectors. (English summary) **94k:46045**
Struppa, Daniele C. A new look at the theory of quasianalytic classes. **94h:26026**
Winkler, Jörg A uniqueness theorem for monogenic functions. (English summary) **94f:30058**

30D99 None of the above, but in this section

Bagdasaryan, D. T. On the growth of M. M. Dzhrbashyan's functions B_α. (Russian. Russian summary) **94e:30010**
Duren, Peter L. (*with* Khavinson, Dmitry; Shapiro, Harold S.; Sundberg, Carl) Contractive zero-divisors in Bergman spaces. (English summary) **94c:30048**
Hedenmalm, Håkan A factoring theorem for a weighted Bergman space. **94d:30064**
— An invariant subspace of the Bergman space having the codimension two property. **94k:30092**
Jevtić, Miroljub An embedding theorem for A^p_π spaces. (English summary) **94h:30048**
Jovanović, Ivan On a representation theorem for spaces A^p_τ. (English summary) **94j:30035**
Khavinson, Dmitry *see* **Duren, Peter L.; et al., 94c:30048**
Korenblum, Boris (*with* Stessin, Michael I.) On Toeplitz-invariant subspaces of the Bergman space. (English summary) **94f:30049**
LeBlanc, Emile A. Recent advances in the theory of zero sets of the Bergman spaces. (English summary) **94e:30011**
Seip, Kristian Beurling type density theorems in the unit disk. (English summary) **94g:30033**
Shapiro, Harold S. *see* **Duren, Peter L.; et al., 94c:30048**
Sheremeta, M. N. *see* **Strochik, S. M., 94d:30065**
Srivastava, G. S. On generalized axisymmetric potentials of slow growth. (English summary) **94g:30034**
Stessin, Michael I. An extension of a theorem of Hadamard and domination in the Bergman space. (English summary) **94i:30032**
— *see also* **Korenblum, Boris, 94f:30049**
Strochik, S. M. (*with* Sheremeta, M. N.) Functions of bounded index that are analytic in the disk. (Ukrainian. English and Russian summaries) **94d:30065**
Sundberg, Carl *see* **Duren, Peter L.; et al., 94c:30048**
Watanabe, Hiroshi[1] Some inequalities of means and its applications to Bergman spaces. (English summary) **94f:30050**
Xiao, Jie[1] Atomic decomposition and free interpolation in $A^1(\varphi)$. (English summary) **94g:30035**

Items with secondary classifications in 30D99

Candelpergher, B. (*with* Nosmas, J.-C.; Pham, F.) Premiers pas en calcul étranger. (English and French summaries) [First steps in alien calculus] **94f:34104**
Dijksma, Aalt (*with* Langer, Heinz; de Snoo, Henk) Eigenvalues and pole functions of Hamiltonian systems with eigenvalue depending boundary conditions. (English summary) **94m:47091**
Ding, Xiao Qing The (α, β)-order of analytic Dirichlet series of (R)-order zero. (Chinese. Chinese summary) **94k:30004**
Fritzsche, Bernd (*with* Fuchs, Stefan; Kirstein, Bernd) Schur-sequence parametrizations of Potapov-normalized full-rank j_{pq}-elementary factors. (English summary) **94m:47027**
Fuchs, Stefan *see* **Fritzsche, Bernd; et al., 94m:47027**
Hasumi, Morisuke Toeplitz operators acting on generalized functions. (*see* **94d:46004**)
Hedayatian, K. *see* **Yousefi, B.; et al., 94j:47048**
Hibschweiler, R. A. (*with* MacGregor, T. H.) Bounded analytic families of Cauchy-Stieltjes integrals. **94d:30073**
Kirstein, Bernd *see* **Fritzsche, Bernd; et al., 94m:47027**
Korenblum, Boris Outer functions and cyclic elements in Bergman spaces. (English summary) **94h:46038**
Langer, Heinz *see* **Dijksma, Aalt; et al., 94m:47091**
Lin, Ch'ing Ho (*with* Sibuya, Yasutaka; Tabara, Tatsuhiko J.) Zeros of solutions of a second order linear differential equation with polynomial coefficients. **94i:34009**
MacGregor, T. H. *see* **Hibschweiler, R. A., 94d:30073**
Marchetti, Domingos H. U. An alternative to Plemelj-Smithies formulas on infinite determinants. (English summary) **94m:47040**
Mhaskar, H. N. Weighted polynomial approximation of entire functions on unbounded subsets of the complex plane. (English summary) **94h:41056**
Nosmas, J.-C. *see* **Candelpergher, B.; et al., 94f:34104**
Pham, F. *see* **Candelpergher, B.; et al., 94f:34104**
Rahman, Qazi Ibadur (*with* Schmeisser, Gerhard) A quadrature formula for entire functions of exponential type. (English summary) **94i:65034**
Ramis, Jean-Pierre About the growth of entire functions solutions of linear algebraic q-difference equations. (English and French summaries) **94g:39003**
Schmeisser, Gerhard *see* **Rahman, Qazi Ibadur, 94i:65034**
Seddighi, K. *see* **Yousefi, B.; et al., 94j:47048**
Shamoyan, F. A. Closed ideals in algebras of functions that are analytic in the disk and smooth up to its boundary. (Russian. Russian summary) **94m:46087**
Sibuya, Yasutaka *see* **Lin, Ch'ing Ho; et al., 94i:34009**
de Snoo, Henk *see* **Dijksma, Aalt; et al., 94m:47091**
Tabara, Tatsuhiko J. *see* **Lin, Ch'ing Ho; et al., 94i:34009**
Xiao, Jie[1] On interpolation by functions in B_η-space. (English and Chinese summaries) **94m:30075**
Yousefi, B. (*with* Seddighi, K.; Hedayatian, K.) On the reflexivity of multiplication operators on Dirichlet spaces. (English summary) **94j:47048**

30Exx Miscellaneous topics of analysis in the complex domain

30E05 Moment problems, interpolation problems

Bonan-Hamada, Catherine M. (*with* Jones, William B.; Thron, W. J.; Magnus, Arne) Para-orthogonal Laurent polynomials and associated sequences of rational functions. (English summary) **94a:30029**
Bultheel, Adhemar (*with* González-Vera, Pablo; Hendriksen, Erik; Njåstad, Olav) A moment problem associated to rational Szegő functions. (English summary) **94d:30066**
Fisher, Stephen D. Pick-Nevanlinna interpolation on finitely-connected domains. (English summary) **94c:30049**

Fritzsche, Bernd (*with* Kirstein, Bernd) Darlington synthesis with Arov-singular j_{pq}-inner functions. (English summary) **94k:30093**
González-Vera, Pablo *see* **Bultheel, Adhemar; et al., 94d:30066**
Hendriksen, Erik *see* **Bultheel, Adhemar; et al., 94d:30066**
Jones, William B. *see* **Bonan-Hamada, Catherine M.; et al., 94a:30029**
Kim, Jeongook A nonrecursive parametrization of Nevanlinna-Pick interpolants. **94k:30094**
Kirstein, Bernd *see* **Fritzsche, Bernd, 94k:30093**
Magnus, Arne *see* **Bonan-Hamada, Catherine M.; et al., 94a:30029**
Malyutin, K. G. Multiple interpolation in a half-plane in a class of analytic functions of finite order and normal type. (Russian) **94k:30095**
— The problem of multiple interpolation in a half-plane in a class of analytic functions of finite order and normal type. (Russian. Russian summary) **94f:30051**
Nicolau, Artur A characterization of the leading coefficient of Nevanlinna's parametrization. **94c:30050**
Njåstad, Olav *see* **Bultheel, Adhemar; et al., 94d:30066**
Shen, Xie Chang Using the average modulus of continuity to estimate the mean approximation order of interpolation operators on perturbed roots of unity. (Chinese. English and Chinese summaries) **94h:30049**
Starke, Gerhard Fejér-Walsh points for rational functions and their use in the ADI iterative method. (English summary) **94a:30030**
Thron, W. J. *see* **Bonan-Hamada, Catherine M.; et al., 94a:30029**
Tolokonnikov, V. Extremal functions of the Nevanlinna-Pick problem and Douglas algebras. (English summary) **94k:30096**
Xia, Xiang Gen Extensions of the Papoulis-Gerchberg algorithm for analytic functions. (English summary) **94e:30012**
Xiao, Jie[1] On interpolation by functions in B_η-space. (English and Chinese summaries) **94m:30075**
Zinenko, S. N. Weyl disks in the degenerate Schur interpolation problem. (Russian) **94j:30036**

Items with secondary classifications in 30E05

Alpay, Daniel (*with* Dym, Harry) On reproducing kernel spaces, the Schur algorithm, and interpolation in a general class of domains. (English summary) **94j:46034**
— (*with* Loubaton, Philippe) The tangential trigonometric moment problem on an interval and related topics. (English summary) **94m:47026**
Arocena, Rodrigo On the maximum entropy solution of the Carathéodory-Fejér problem. (English summary) **94k:47018**
Arov, D. Z. The generalized bitangent Carathéodory-Nevanlinna-Pick problem and (j, J_0)-inner matrix functions. (Russian. Russian summary) **94j:47023**
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— (*with* Rakowski, Marek) Interpolation by rational matrix functions and stability of feedback systems: the 4-block case. (English summary) **94j:47099**
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30E10 Approximation in the complex domain

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— *see also* **Bonilla, A., 94m:30076**
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Osipenko, K. Yu. Minimal Blashke [Blaschke] products and optimal quadrature formulae in H^∞. **94e:30014**
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— *see also* **O'Farrell, Anthony G., 94b:30046**
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Petković, Lj. D. On optimal including circular approximation for the range of a complex exponential function. (English, German and Russian summaries) **94d:30067**
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Prokhorov, V. A. Approximation of analytic functions by rational functions. (Russian) **94d:30068**
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Arakelyan, N. U. Approximation by entire functions and analytic continuation. (English summary) **94m:30050**
Bagby, Thomas (*with* Cornea, Aurel; Gauthier, Paul M.) Harmonic approximation on arcs. (English summary) **94j:31006**
Baratchart, Laurent (*with* Zerner, Martin) On the recovery of functions from pointwise boundary values in a Hardy-Sobolev class of the disk. (English summary) **94d:41002**
Bergman, David J. Hierarchies of Stieltjes functions and their application to the calculation of bounds for the dielectric constant of a two-component composite medium. (English summary) **94e:73001**

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de Bruin, Marcel G. (*with* Driver, K. A.; Lubinsky, Doron S.) Convergence of simultaneous Hermite-Padé approximants to the n-tuple of q-hypergeometric series $\{{}_1\Phi_1(\binom{1,1}{c,\gamma_j};z)\}_{j=1}^n$. (English summary) **94b:33022**
Bustamante González, Jorge (*with* López Lagomasino, Guillermo) Hermite-Padé approximations for Nikishin systems of analytic functions. (Russian. Russian summary) **94d:41026**
— (*with* López Lagomasino, Guillermo) Rate of convergence of Hermite-Padé approximants to a Nikishin-type system of analytic functions. (English summary) **94m:41030**
Camacho Machín, M. (*with* González-Vera, Pablo) Rational approximants to symmetric formal Laurent series. (English summary) **94h:41031**
Cornea, Aurel *see* **Bagby, Thomas; et al.**, **94j:31006**
Dietmair, T. The Mergelyan-Bishop theorem in the case of mappings into homogeneous manifolds. II. Proof of the theorem and application. **94m:32041**
Driver, K. A. (*with* Lubinsky, Doron S.) Convergence of Padé approximants for Wynn's power series. II. **94j:41014**
— (*with* Lubinsky, Doron S.) Convergence of Padé approximants for a q-hypergeometric series (Wynn's power series III). (English summary) **94a:41033**
— (*with* Lubinsky, Doron S.) On the degree of nonuniqueness of simultaneous Hermite-Padé approximants to a vector of entire functions. (English summary) **94k:41027**
— *see also* **de Bruin, Marcel G.; et al.**, **94b:33022**
Gauthier, Paul M. *see* **Bagby, Thomas; et al.**, **94j:31006**
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Hedberg, Lars Inge Approximation by harmonic functions, and stability of the Dirichlet problem. **94k:31001**
Karupu, E. V. Inversion of Kellogg-type theorems for integral moduli of smoothness. (Russian. Russian summary) (*see* **93m:00019**)
Katsnel'son, V. È. Weighted spaces of pseudocontinuable functions and approximations by rational functions with prescribed poles. (English summary) **94m:30072**
Le Merdy, Christian The Adamjan-Arov-Krein theorem on H^p-spaces ($2 \le p \le \infty$) and on the disc algebra. (English summary) **94g:47035**
Levenberg, Norman (*with* Bloom, Thomas) Lagrange interpolation of entire functions in $\mathbf{C}^2$. (English summary) **94i:32016**
Li, Jia Liang The a.s. convergence of random Padé approximation in L^p spaces ($0 < p < 1$). (Chinese. Chinese summary) **94g:41027**
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Lubinsky, Doron S. Spurious poles in diagonal rational approximation. (English summary) **94m:41027**
— *see also* **Driver, K. A.**, **94a:41033**; **de Bruin, Marcel G.; et al.**, **94b:33022**; **Driver, K. A.**, **94j:41014** *and* **94k:41027**
Marshall, T. H. *see* **McInnes, A. W.**, **94i:41017**
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— (*with* Shuai, Bin Peng) The order of approximation by Lagrange interpolating polynomials at asymptotic Fejér points. (Chinese. English and Chinese summaries) **94a:41009**
— Using the average modulus of continuity to estimate the mean approximation order of interpolation operators on perturbed roots of unity. (Chinese. English and Chinese summaries) **94h:30049**
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30E15 Asymptotic representations in the complex domain

Garofalo, Nicola (*with* Segàla, Fausto) Another step toward the solution of the Pompeiu problem in the plane. **94j:30039**
Riedel, R. Konvergenzbeschleunigung bei Potenzreihen durch asymptotische Entwicklung der Restsummen. (English, German and Russian summaries) [Acceleration of convergence in power series through asymptotic expansion of the residual sums] (*see* **94f:00015**)
Segàla, Fausto *see* **Garofalo, Nicola**, **94j:30039**

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Balser, Werner Addendum: "A different characterization of multi-summable power series" [Analysis **12** (1992), no. 1-2, 57–65; MR 93d:40009]. (English summary) **94k:40006**
Boyd, W. G. C. Error bounds for the method of steepest descents. (English summary) **94j:41025**
Byatt-Smith, J. G. B. (*with* Davie, A. M.) Exponentially small oscillations in the solution of an ordinary differential equation. **94a:34076**
Davie, A. M. *see* **Byatt-Smith, J. G. B.**, **94a:34076**
Jones, William B. (*with* Thron, W. J.; Njåstad, Olav; Waadeland, Haakon) Szegő polynomials applied to frequency analysis. (English summary) **94g:94003**
Kalyagin, V. A. On asymptotics of L_p extremal polynomials on a complex curve ($0 < p < \infty$). (English summary) **94h:41068**
Njåstad, Olav *see* **Jones, William B.; et al.**, **94g:94003**
Thron, W. J. *see* **Jones, William B.; et al.**, **94g:94003**
Waadeland, Haakon *see* **Jones, William B.; et al.**, **94g:94003**
Zhu, Lai Yi The asymptotic formula of the orthogonal rational function on the unit circle. (English summary) **94j:42039**

30E20 Integration, integrals of Cauchy type, integral representations of analytic functions [see also 45Exx]

Hallenbeck, D. J. (*with* Samotij, K.) On Cauchy integrals of logarithmic potentials and their multipliers. **94c:30051**
Hibschweiler, R. A. (*with* MacGregor, T. H.) Bounded analytic families of Cauchy-Stieltjes integrals. **94d:30073**
Katamadze, R. G. Integral representation of a holomorphic function on a finite Riemann surface. (Russian. English and Georgian summaries) **94c:30052**
Krzyż, Jan G. Fredholm eigenvalues and complementary Hardy spaces. (Polish summary) **94g:30037**
Kulagina, M. F. Cauchy formulas for an integral with almost periodic density, and their application. (Russian. Russian summary) (*see* **94i:00010**)
MacGregor, T. H. *see* **Hibschweiler, R. A.**, **94d:30073**
Mattila, Pertti Principal values of Cauchy integrals, rectifiable measures and sets. (*see* **94k:42001**)
— (*with* Mel'nikov, M. S.) Existence and weak-type inequalities for Cauchy integrals of general measures on rectifiable curves and sets. **94b:30047**
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Plaksa, S. A. Iterated integrals over a rectifiable curve. (Russian. Russian summary) **94e:30015**
Samotij, K. *see* **Hallenbeck, D. J.**, **94c:30051**
Soldatov, A. P. A generalized integral of Cauchy type. (Russian. English and Georgian summaries) **94c:30053**
Verdera, Joan A weak type inequality for Cauchy transforms of finite measures. (English summary) **94k:30099**

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Ball, Joseph A. (*with* Clancey, Kevin F.) Interpolation with meromorphic matrix functions. (English summary) **94h:47025**
Clancey, Kevin F. *see* **Ball, Joseph A.**, **94h:47025**
David, Guy (*with* Semmes, Stephen) ★ Analysis of and on uniformly rectifiable sets. **94i:28003**
Entov, V. M. (*with* Ètingof, P. I.; Kleinbock, Dmitry Ya.) Hele-Shaw flows with a free boundary produced by multipoles. (English summary) **94f:76024**
Ètingof, P. I. *see* **Entov, V. M.; et al.**, **94f:76024**
Kleinbock, Dmitry Ya. *see* **Entov, V. M.; et al.**, **94f:76024**
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Shirokova, E. A. On a mixed problem in a half-strip for an elliptic-type equation. (Russian) **94i:35054**
Wang, Chuan Rong Algebras of singular integral operators with doubly periodic kernels. (Chinese. Chinese summary) **94c:47073**

30E25 Boundary value problems [see also 45Exx]

Airapetyan, G. M. Boundary value problems of Riemann-Hilbert type for the Bitsadze equation in the classes L^p ($p \ge 1$). (Russian. Armenian summary)
Aksent'ev, L. A. (*with* Zorin, I. A.) Classes of multivalent analytic functions that solve the Hilbert problem. (Russian) **94i:30034**
Anezbaeva, T. E. The nonlinear generalized Riemann-Hilbert problem in fractional spaces. (Russian. English, Russian and Kazakh summaries)
Bikchantaev, I. A. Formulas for the inversion of singular integrals on Riemannian surfaces. (Russian) **94k:30100**
Chekmarëv, T. V. Analogues of the Schwarz formula for the inhomogeneous Cauchy-Riemann system. (Russian. Russian summary) **94a:30033**
Damjanović, Boško Interior homogeneous boundary value problem for simple connected regions. (English summary)
Gogonea, Sorin On a problem with mixed boundary conditions and matching conditions for the plane equipped with circular cuts. (Romanian. French summary)
Gordadze, È. G. A boundary value problem of linear conjugation in the case of a measurable coefficient. (Russian. English and Georgian summaries)
Isakhanov, R. S. A boundary value problem for analytic functions with mixed conditions. (Russian)
Kiyasov, S. N. Some problems in the theory of the linear-fractional Riemann boundary value problem for a closed contour. (Russian. Russian summary) (*see* **94i:00010**)
Krzyż, Jan G. Fredholm eigenvalues and complementary Bergman spaces. **94e:30016**
Li, Xing Estimation of the coefficients of homogeneous Riemann boundary value systems with constant coefficients. (Chinese. Chinese summary)
Lü, De A remark on the solution for a certain nonlinear two-dimensional singular integral equation. (English and Chinese summaries) **94k:30101**
Lu, Jian Ke Boundary value problems for analytic functions and integral equations with transformations. (*see* **94m:30001**)
Meunargiya, O. V. Asymptotic properties of solutions of the linear conjugation boundary value problem. (Russian and Georgian summaries) **94g:30038**
Monakhov, V. N. (*with* Verkhovod, D. B.; Semenko, E. V.) ★ Краевые задачи для квазианалитических функций на компактных римановых поверхностях. (Russian. Russian summary) [Boundary value problems for quasi-analytic functions on compact Riemann surfaces] **94d:30074**
Obnosov, Yu. V. Solution of a problem of R-linear conjugation for a regular triangular chess field. (Russian) **94g:30039**
— Solution of a boundary value problem of R-linear conjugation with piecewise-constant coefficients. (Russian) **94h:30051**

Ostrovskiĭ, I. V. Conditions for the solvability of the homogeneous Riemann boundary value problem with an infinite index. (Russian) **94d:30075**
— The homogeneous Riemann boundary value problem with an infinite index on a curvilinear contour. I. (Russian) **94d:30076**
Pritsker, I. E. On the continuity of harmonically conjugate functions in Jordan domains. (Russian. Russian and Ukrainian summaries) **94b:30048**
Salimov, R. B. (*with* Strezhneva, E. V.) On a solution of an inverse mixed boundary value problem. (Russian) **94m:30079**
Schüffler, K.-H. On the Dirichlet and the Riemann-Hilbert problem on Möbius strips. (English summary) **94m:30080**
Semenko, E. V. *see* **Monakhov, V. N.; et al., 94d:30074**
Shevila, T. A. The Carleman boundary value problem in the space E. (Russian. Russian summary)
Slavutin, M. L. An inverse boundary value problem for domains with spiral-shaped boundaries. (Russian) **94h:30052**
Soldatov, A. P. ★ Краевые задачи теории функций в областях с кусочно-гладкой границей. Часть I, II. (Russian. English, Russian and Georgian summaries) [Boundary value problems of function theory in domains with a piecewise-smooth boundary. Part I, II] **94i:30035**
Strezhneva, E. V. *see* **Salimov, R. B., 94m:30079** *and* **Zhegalov, V. I., (94i:00010)**
Tungatarov, A. B. On the existence of continuous solutions of the Carleman-Vekua equation with a singular point. (Russian)
— On the theory of the Carleman-Vekua equation with a singular point. (Russian. Russian summary) **94e:30017**
Verkhovod, D. B. *see* **Monakhov, V. N.; et al., 94d:30074**
Wegert, Elias ★ Nonlinear boundary value problems for holomorphic functions and singular integral equations. (English and German summaries) **94b:30049**
— Iterative methods for discrete nonlinear Riemann-Hilbert problems. (English summary) **94h:30053**
von Wolfersdorf, Lothar On the theory of the nonlinear Hilbert problem for holomorphic functions. **94a:30034**
Zhegalov, V. I. (*with* Strezhneva, E. V.) On the Riemann problem with an inverse Carleman shift. (Russian. Russian summary) (*see* **94i:00010**)
Zhuravleva, M. I. An interpolation problem applied to the theory of boundary value problems with infinite index. (Russian) (*see* **94i:46001**)
Zorin, I. A. *see* **Aksent'ev, L. A., 94i:30034**

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Dimitrovski, Dragan (*with* Ilievski, Borko) Quadratures in areolar equations. (English summary)
Duduchava, R. V. (*with* Latsabidze, T. I.; Saginashvili, A. I.) Singular integral operators with complex conjugation on piecewise-smooth lines. (Russian. English and Georgian summaries) **94j:47074**
Dzhangibekov, G. On a class of two-dimensional singular integral operators and its applications to boundary value problems for elliptic systems of equations in the plane. (Russian) **94i:45009**
Efimov, S. V. Bisingular operators with irreducible involutive shift. (Russian) **94a:45024**
Gilbert, Robert P. (*with* Wen, Guo Chun) Some initial-boundary value problems for a nonlinear pseudoparabolic system. **94h:35134**
Ilievski, Borko An application of the Laplace areolar integral for solving areolar linear equations. (English summary)
— *see also* **Dimitrovski, Dragan**
Kapishev, G. K. A special case of the linear conjugation problem for generalized hyperanalytic functions. (Russian. English, Russian and Kazakh summaries)
Khimshiashvili, G. N. Fredholm aspects of problems of linear conjugation. (Russian) **94i:58009**
— Loop groups and Fredholm operators. **94a:58009**
Krutitskiĭ, P. A. On the equivalence of the oblique derivative problem and the Riemann-Hilbert problem. (Russian. Russian summary) **94b:35202**
Latsabidze, T. I. *see* **Duduchava, R. V.; et al., 94j:47074**
Lin, Yi² The Noether theory of the Dirichlet problem for singular integro-differential equations in a bounded domain. (Chinese. English and Chinese summaries) **94d:45008**
Muskhelishvili, N. I. ★ Singular integral equations. (English summary) **94a:45001**
Naboko, S. N. The structure of singularities of operator functions with a positive imaginary part. (Russian) **94e:47023**
Pescar, V. The sufficient conditions for univalency of the solution of the inverse boundary problem. (Romanian summary)
Pincus, Joel (*with* Zhou, Shao Jie) Principal currents for a pair of unitary operators. **94m:47001**
Povolotskiĭ, A. I. (*with* Utepkaliev, S. U.) Investigation of the nonlinear Cauchy-Riemann system in Orlicz spaces. (Russian) **94a:35048**
(Radok, J. R. M.) *see* **Muskhelishvili, N. I., 94a:45001**
Rasulov, K. M. Solution of boundary value problems of Dirichlet and Schwarz type for polyanalytic functions. (Russian. Russian summary) (*see* **94c:00021**)
— A general approach to the solution of classical boundary value problems for polyanalytic functions and their generalizations. (Russian. Russian summary) **94g:30044**
Rondoni, Lamberto (*with* Zweifel, Paul F.) Singular integral equations on closed contours. II. (English summary) **94h:45004**
Saginashvili, A. I. *see* **Duduchava, R. V.; et al., 94j:47074**
Sil'vestrov, V. V. Boundary value problems in the theory of elasticity for a plane with a countable set of cuts. (Russian) **94a:73014**
Tungatarov, A. B. The Riemann-Hilbert problem for an elliptic system in the plane with a singular point. (Russian. English, Russian and Kazakh summaries) **94m:30091**
— On the theory of the generalized Cauchy-Riemann system with a singular point. (Russian. English and Russian summaries) **94j:30041**
Utepkaliev, S. U. *see* **Povolotskiĭ, A. I., 94a:35048**
Wen, Guo Chun *see* **Gilbert, Robert P., 94h:35134**
Yang, Pi Wen Riemann-Hilbert boundary value problems for analytic functions of several complex variables. (Chinese. English and Chinese summaries) **94k:35238**
Zeng, Yue Sheng Riemann boundary value problems for hyperanalytic functions on rectifiable Jordan closed curves. (Chinese. English and Chinese summaries) **94f:30063**
Zhou, Shao Jie *see* **Pincus, Joel, 94m:47001**
Zweifel, Paul F. *see* **Rondoni, Lamberto, 94h:45004**

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Dovgoshei, A. A. Families of functions with equipotentially absolutely continuous integrals. (Russian. Russian and Ukrainian summaries) **94b:30050**
Sakai, Makoto Regularity of boundaries of quadrature domains in two dimensions. (English summary) **94c:30054**

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Aoki, Takashi (*with* Kawai, Takahiro; Takei, Yoshitsugu) The Bender-Wu analysis and the Voros theory. **94a:34077**
Constantin, Peter (*with* Pugh, M.) Global solutions for small data to the Hele-Shaw problem. (English summary) **94j:35142**
Fritzsche, Bernd (*with* Fuchs, Stefan; Kirstein, Bernd) Schur-sequence parametrizations of Potapov-normalized full-rank j_{pq}-elementary factors. (English summary) **94m:47027**
Fuchs, Stefan *see* **Fritzsche, Bernd; et al., 94m:47027**
Garofalo, Nicola (*with* Segàla, Fausto) Asymptotic expansions for a class of Fourier integrals and applications to the Pompeiu problem. **94i:35052**
Kaashoek, M. A. (*with* Ran, André C. M.; Rodman, Leiba) Local minimal factorizations of rational matrix functions in terms of null and pole data: formulas for factors. (English summary) **94a:47019**
Kawai, Takahiro *see* **Aoki, Takashi; et al., 94a:34077**
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Rodman, Leiba *see* **Kaashoek, M. A.; et al., 94a:47019**
Segàla, Fausto *see* **Garofalo, Nicola, 94i:35052**
Takei, Yoshitsugu *see* **Aoki, Takashi; et al., 94a:34077**
Yang, Wei Yang The J-integral of the crack tip of the mixed mode for an orthotropic composite plate. (Chinese. English and Chinese summaries)

30Fxx Riemann surfaces

30F10 Compact Riemann surfaces and uniformization [see also 14H15, 32G15]

Bujalance, Emilio (*with* Bujalance, J. A.; Gromadzki, Grzegorz; Martínez, Ernesto) Cyclic trigonal Klein surfaces. **94g:30040**
Bujalance, J. A. *see* **Bujalance, Emilio; et al., 94g:30040**
Gromadzki, Grzegorz *see* **Bujalance, Emilio; et al., 94g:30040**
Kato, Yoshiya *see* **Kuribayashi, Akikazu; et al., 94f:30054**
Kimura, Hideyuki *see* **Kuribayashi, Akikazu; et al., 94f:30054**
Kuribayashi, Akikazu (*with* Kato, Yoshiya; Kimura, Hideyuki) On automorphism groups of compact Riemann surfaces of order sixteen. (English summary) **94f:30054**
Martínez, Ernesto *see* **Bujalance, Emilio; et al., 94g:30040**
Porter, R. Michael Differential invariants in Möbius geometry. **94d:30077**
Steinmetz, Norbert The formula of Riemann-Hurwitz and iteration of rational functions. (English summary) **94m:30081**
Turbek, Peter On compact Riemann surfaces with a maximal number of automorphisms. **94i:30036**

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Bojarski, Bogdan Higher order natural differential operators on Riemann surfaces. (English summary) **94k:53018**
Broughton, S. Allen Simple group actions on hyperbolic Riemann surfaces of least area. (English summary) **94b:57017**
Bujalance, Emilio (*with* Gamboa, J. M.; Gromadzki, Grzegorz) The full automorphism groups of hyperelliptic Riemann surfaces. (English summary) **94f:20093**
Candel, Alberto Uniformization of surface laminations. (English summary) **94f:57025**
Cori, Robert (*with* Machì, Antonio) Maps, hypermaps and their automorphisms: a survey. I, II, III. **94a:57006**
Drasin, David On Ahlfors's theory of covering surfaces. **94k:30072**
Gallo, Daniel M. Some special limits of Schottky groups. **94e:30018**
Gamboa, J. M. *see* **Bujalance, Emilio; et al., 94f:20093**
Gouma, Tomomi Isomorphism of meromorphic function fields on Riemann surfaces. **94d:30085**
Gromadzki, Grzegorz *see* **Bujalance, Emilio; et al., 94f:20093**
Imayoshi, Y. (*with* Taniguchi, Masahiko) ★ An introduction to Teichmüller spaces. (English summary) **94b:32031**
Katamadze, R. G. Integral representation of a holomorphic function on a finite Riemann surface. (Russian. English and Georgian summaries) **94c:30052**
Kuribayashi, Akikazu (*with* Ohmori, Shoji) The character theory of groups and automorphism groups of Riemann surfaces. II. (Japanese. English summary) **94h:14033**
Li, You Quan *see* **Shen, Jian Min; et al., 94d:81205**
Machì, Antonio *see* **Cori, Robert, 94a:57006**
Martens, Henrik H. On the reduction of Abelian integrals and a problem of H. Hopf. (English summary) **94a:14047**
Natanzon, S. M. Topological invariants and moduli of hyperbolic $N = 2$ Riemannian supersurfaces. (Russian. Russian summary) **94h:32012**
Neubauer, Michael G. On primitive monodromy groups of genus zero and one. I. (English summary) **94a:20007**
Ohmori, Shoji *see* **Kuribayashi, Akikazu, 94h:14033**
Shen, Jian Min (*with* Sheng, Zheng Mao; Li, You Quan) Uniformization of Riemann surfaces and the theory of the Liouville field. (Chinese. English and Chinese summaries) **94d:81205**

Sheng, Zheng Mao *see* **Shen, Jian Min; et al., 94d:81205**
Shiba, Masakazu The Euclidean, hyperbolic, and spherical spans of an open Riemann surface of low genus and the related area theorems. **94f:30010**
Takhtajan, Leon A. Semi-classical Liouville theory, complex geometry of moduli spaces, and uniformization of Riemann surfaces. (English summary) **94c:32011**
Taniguchi, Masahiko *see* **Imayoshi, Y., 94b:32031**
Toki, Masahiko On nonstarlikeness of Teichmüller spaces. (English summary) **94h:32039**
Yoshida, Katsuaki Local injectivity of Prym maps for some families of compact Riemann surfaces. **94f:14022**

30F15 Harmonic functions on Riemann surfaces

Fernández, J. L. (*with* Rodríguez, J. M.) Area growth and Green's function of Riemann surfaces. **94a:30035**
Ishida, Hisashi Normal operators constructed from generalized harmonic measures on open Riemann surfaces. **94m:30082**
Rodríguez, J. M. *see* **Fernández, J. L., 94a:30035**

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Nag, Subhashis Riemann surfaces and their Jacobians: a toolkit. (English summary) **94k:14020**
Zinov'ev, Yu. M. Partially U(1) compactified scalar massless field on the compact Riemann surface and the bosonic string amplitudes. (English summary) **94e:81261**

30F20 Classification theory of Riemann surfaces

Items with secondary classifications in 30F20

Nakai, Mitsuru Riemannian manifolds with connected Royden harmonic boundaries. **94b:31008**

30F25 Ideal boundary theory

Zhang, Ji Hong *see* **Zhang, Zhao Gong**
Zhang, Zhao Gong (*with* Zhang, Ji Hong) A necessary and sufficient condition for an open Riemann surface and its smooth covering surface to be conformally equivalent. (Chinese. English and Chinese summaries)

Items with secondary classifications in 30F25

Ishida, Hisashi Normal operators constructed from generalized harmonic measures on open Riemann surfaces. **94m:30082**
Taniguchi, Masahiko Boundary variation and quasiconformal maps of Riemann surfaces. **94b:30026**

30F30 Differentials on Riemann surfaces

Maitani, Fumio Meromorphic differentials restricted by real behavior spaces. (English summary) **94d:30078**
Masterson, John T. Uniqueness of affine structures on Riemann surfaces. **94b:30051**
Matsui, Kunihiko Note on the behavior spaces on open Riemann surfaces and its applications to multiplicative differentials. **94g:30041**

Items with secondary classifications in 30F30

Kato, Yoshiya *see* **Kuribayashi, Akikazu; et al., 94f:30054**
Kimura, Hideyuki *see* **Kuribayashi, Akikazu; et al., 94f:30054**
Kuribayashi, Akikazu (*with* Kato, Yoshiya; Kimura, Hideyuki) On automorphism groups of compact Riemann surfaces of order sixteen. (English summary) **94f:30054**
Masur, Howard (*with* Smillie, John) Quadratic differentials with prescribed singularities and pseudo-Anosov diffeomorphisms. **94d:32028**
Otal, Jean-Pierre Sur le bord du prolongement de Bers de l'espace de Teichmüller. (English and French summaries) [On the boundary of the Bers embedding of Teichmüller space] **94b:32033**
Schlichenmaier, Martin Degenerations of generalized Krichever-Novikov algebras on tori. (English summary) **94e:17040**
Smillie, John *see* **Masur, Howard, 94d:32028**
Taniguchi, Masahiko Period-preserving variation of a Riemann surface. **94m:30086**

30F35 Fuchsian groups and automorphic functions [see also 11Fxx, 20H10, 22E40, 32Gxx, 32Nxx]

Izquierdo Barrios, Milagros Minimal index surface subgroups of non-Euclidean crystallographic groups. **94h:30054**
Jones, Gareth A. (*with* Silver, Stephen A.) Suzuki groups and surfaces. (English summary) **94i:30037**
Kourouniotis, Christos The geometry of bending quasi-Fuchsian groups. **94b:30052**
Matsuzaki, Katsuhiko Ergodic properties of discrete groups; inheritance to normal subgroups and invariance under quasiconformal deformations. **94m:30083**
Näätänen, Marjatta A cellular parametrization for closed surfaces with a distinguished point. (English summary) **94d:30079**
Nakanishi, Toshihiro (*with* Velling, John A.) A sufficient condition for Teichmüller spaces to have smallest possible inner radii. (English summary) **94i:30038**
Shiga, Hiroshige H^1-BMO duality on Riemann surfaces. **94d:30080**
Silver, Stephen A. *see* **Jones, Gareth A., 94i:30037**
Velling, John A. *see* **Nakanishi, Toshihiro, 94i:30038**
Wang, Jian Representations of holomorphic automorphic forms and their applications. (Chinese. English and Chinese summaries) **94m:30084**

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Bishop, Christopher J. (*with* Steger, Tim) Representation-theoretic rigidity in PSL(2, **R**). **94g:22023**
Coornaert, Michel Mesures de Patterson-Sullivan sur le bord d'un espace hyperbolique au sens de Gromov. (French summary) [Patterson-Sullivan measures on the boundary of a hyperbolic space in the sense of Gromov] **94m:57075**
Guivarc'h, Yves (*with* Le Jan, Y.) Asymptotic winding of the geodesic flow on modular surfaces and continued fractions. (English summary) **94a:58157**
Lee, Min Ho Mixed cusp forms and Poincaré series. **94k:11050**
Le Jan, Y. *see* **Guivarc'h, Yves, 94a:58157**
May, Coy L. (*with* Zimmerman, Jay) The symmetric genus of finite abelian groups. **94m:20099**
Parker, John R. Rational powers of generators of Möbius groups. **94a:20083**
Shirakawa, Hiroshi A partial criterion for ergodicity of geodesic flows on surfaces with infinite area and negative curvature. (English summary) **94i:58154**
Spielberg, John S. Cuntz-Krieger algebras associated with Fuchsian groups. (English summary) **94k:46143**
Steger, Tim *see* **Bishop, Christopher J., 94g:22023**
Zimmerman, Jay *see* **May, Coy L., 94m:20099**

30F40 Kleinian groups [see also 20H10]

Chu, Yu Ming (*with* Song, Ying Qing) Convergence of the norm series $\sum |g|^{-s}$ in discrete groups. (Chinese. English and Chinese summaries) **94k:30102**
Gallo, Daniel M. Some special limits of Schottky groups. **94e:30018**
Hersonsky, Sa'ar A generalization of the Shimizu-Leutbecher and Jørgensen inequalities to Möbius transformations in $\mathbf{R}^N$. (English summary) **94m:30085**
Kamiya, Shigeyasu Note on discrete subgroups of convergence type of $U(1, n; \mathbf{C})$. (English summary) **94h:30055**
Keen, Linda (*with* Maskit, Bernard; Series, Caroline) Geometric finiteness and uniqueness for Kleinian groups with circle packing limit sets. **94b:30053**
Maskit, Bernard *see* **Keen, Linda; et al., 94b:30053**
Petersen, Carsten Lunde A PLY inequality for Kleinian groups. (English summary) **94g:30042**
Series, Caroline *see* **Keen, Linda; et al., 94b:30053**
Song, Ying Qing *see* **Chu, Yu Ming, 94k:30102**
Tetenov, A. V. The discontinuity set for a Kleinian group and topology of its Kleinian manifold. (English summary) **94d:30081**

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Belegradek, I. O. Conformally flat Seifert manifolds. (English summary) **94i:57022**
Benedetti, Riccardo (*with* Petronio, Carlo) ★ Lectures on hyperbolic geometry. (English summary) **94e:57015**
Bowditch, B. H. Geometrical finiteness for hyperbolic groups. (English summary) **94e:57016**
Bowers, Philip L. The upper Perron method for labelled complexes with applications to circle packings. **94h:52036**
Canary, Richard D. (*with* Taylor, Edward) Kleinian groups with small limit sets. **94m:57028**
Chinburg, Ted (*with* Reid, Alan W.) Closed hyperbolic 3-manifolds whose closed geodesics all are simple. **94k:57020**
Conder, Marston D. E. (*with* Martin, Gaven J.) Cusps, triangle groups and hyperbolic 3-folds. (English summary) **94e:57018**
Coornaert, Michel Mesures de Patterson-Sullivan sur le bord d'un espace hyperbolique au sens de Gromov. (French summary) [Patterson-Sullivan measures on the boundary of a hyperbolic space in the sense of Gromov] **94m:57075**
González-Acuña, F. (*with* Montesinos, José María) On the character variety of group representations in SL(2, **C**) and PSL(2, **C**). **94k:57022**
Hilden, Hugh M. (*with* Lozano, María Teresa; Montesinos, José María) Universal 2-bridge knot and link orbifolds. (English summary) **94i:57012**
Kapovich, M. È. Flat conformal structures on 3-manifolds. I. Uniformization of closed Seifert manifolds. (English summary) **94h:57021**
Lozano, María Teresa *see* **Hilden, Hugh M.; et al., 94i:57012**
Martin, Gaven J. *see* **Conder, Marston D. E., 94e:57018**
Melián, María V. (*with* Pestana, Domingo) Geodesic excursions into cusps in finite-volume hyperbolic manifolds. **94d:53067**
Menasco, William W. (*with* Reid, Alan W.) Totally geodesic surfaces in hyperbolic link complements. **94g:57016**
Minsky, Yair N. On rigidity, limit sets, and end invariants of hyperbolic 3-manifolds. (English summary) **94m:57029**
Montesinos, José María *see* **Hilden, Hugh M.; et al., 94i:57012** *and* **González-Acuña, F., 94k:57022**
Nicholls, P. J. (*with* Waterman, P. L.) Limit points via Schottky pairings. **94a:20082**
Pestana, Domingo *see* **Melián, María V., 94d:53067**
Petronio, Carlo *see* **Benedetti, Riccardo, 94e:57015**
Potyagailo, L. Finitely generated Kleinian groups in 3-space and 3-manifolds of infinite homotopy type. (English summary) **94m:57030**
Reid, Alan W. *see* **Menasco, William W., 94g:57016** *and* **Chinburg, Ted, 94k:57020**
Susskind, Perry (*with* Swarup, Gadde A.) Limit sets of geometrically finite hyperbolic groups. **94d:57066**
Swarup, Gadde A. *see* **Susskind, Perry, 94d:57066**
Tan, Ser Peow Deformations of flat conformal structures on a hyperbolic 3-manifold. (English summary) **94a:57029**
Taylor, Edward *see* **Canary, Richard D., 94m:57028**
Waterman, P. L. *see* **Nicholls, P. J., 94a:20082**

30F45 Conformal metrics (hyperbolic, Poincaré, distance functions)

Beardon, A. F. (*with* Carne, T. K.) A strengthening of the Schwarz-Pick inequality. **94f:30055**
Carne, T. K. *see* **Beardon, A. F., 94f:30055**
Minda, David (*with* Rodin, Burt) Circle packing and Riemann surfaces. **94f:30056**

Rodin, Burt *see* **Minda, David, 94f:30056**

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Chu, Yu Ming Some inequalities for the modular function of a Grötzsch ring. (Chinese. English and Chinese summaries) **94m:30016**
Donnelly, Harold Asymptotic properties of eigenfunctions—the hyperbolic plane. **94h:35190**
Hong, Sungbok Patterson-Sullivan measure and groups of divergence type. **94g:58122**
Iversen, Birger ★ Hyperbolic geometry. (English summary) **94b:51023**
Solynin, A. Yu. Some extremal problems for circular polygons. (Russian. English and Russian summaries) **94m:30048**
Xavier, Frederico On the structure of complete simply connected embedded minimal surfaces. (English summary) **94j:53011**
Yamashita, Shinji Boundary behaviors of the Poincaré density and its derivatives near a nonisolated boundary point. (English summary) **94m:30049**
Zinov'ev, Yu. M. Partially U(1) compactified scalar massless field on the compact Riemann surface and the bosonic string amplitudes. (English summary) **94e:81261**

30F50 Klein surfaces

Bujalance, Emilio (*with* Costa, Antonio F.; Natanzon, S. M.; Singerman, David) Involutions of compact Klein surfaces. **94i:30039**
Costa, Antonio F. (*with* Martínez, Ernesto) Planar hyperelliptic Klein surfaces and fundamental regions of NEC groups. **94b:30054**
— *see also* **Bujalance, Emilio; et al., 94i:30039**
Gromadzki, Grzegorz On soluble groups of automorphisms of nonorientable Klein surfaces. (English summary) **94c:30055**
Martínez, Ernesto *see* **Costa, Antonio F., 94b:30054**
Natanzon, S. M. *see* **Bujalance, Emilio; et al., 94i:30039**
Singerman, David *see* **Bujalance, Emilio; et al., 94i:30039**

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Bujalance, Emilio (*with* Costa, Antonio F.; Singerman, David) Application of Hoare's theorem to symmetries of Riemann surfaces. (English summary) **94i:20087**
— (*with* Gromadzki, Grzegorz; Singerman, David) On the number of real curves associated to a complex algebraic curve. **94d:20054**
Costa, Antonio F. *see* **Bujalance, Emilio; et al., 94i:20087**
Gromadzki, Grzegorz *see* **Bujalance, Emilio; et al., 94d:20054**
May, Coy L. Finite groups acting on bordered surfaces and the real genus of a group. **94i:57026**
Singerman, David *see* **Bujalance, Emilio; et al., 94d:20054** *and* **94i:20087**

30F60 Teichmüller theory [see also 32G15]

Harvey, W. J. Modular groups—geometry and physics. **94b:30055**
Kimura, Hideyuki Automorphism groups, isomorphic to D_8 or Q_8, of compact Riemann surfaces. (English summary) **94d:30082**
Ko, Seok-Ku Embedding bordered Riemann surfaces in Riemannian manifolds. **94h:30056**
Li, Zhong Nonconvexity of spheres in infinite-dimensional Teichmüller spaces.
Masumoto, Makoto Estimates of the Euclidean span for an open Riemann surface of genus one. **94b:30056**
Matsumoto, Yukio (*with* Montesinos, José María) Pseudo-periodic homeomorphisms and degeneration of Riemann surfaces. (English summary) **94h:30057**
Montesinos, José María *see* **Matsumoto, Yukio, 94h:30057**
Shiga, Hiroshige (*with* Tanigawa, Harumi) Grunsky's inequality and its applications to Teichmüller spaces. (English summary) **94i:30040**
Tanigawa, Harumi *see* **Shiga, Hiroshige, 94i:30040**
Taniguchi, Masahiko Period-preserving variation of a Riemann surface. **94m:30086**
Veech, William A. Flat surfaces. **94g:30043**
Yin, Yong Cheng Some properties of universal Teichmüller spaces. (Chinese. English and Chinese summaries) **94m:30087**

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Benedetti, Riccardo (*with* Petronio, Carlo) ★ Lectures on hyperbolic geometry. (English summary) **94e:57015**
Bugajska, Krystyna Teichmüller spaces of string theory. **94h:32034**
Earle, C. J. (*with* Kra, Irwin; Krushkal', S. L.) Holomorphic motions and Teichmüller spaces. (English summary) **94h:32035**
Fathi, A. (*with* Flaminio, Livio) Infinitesimal conjugacies and Weil-Petersson metric. (English and French summaries) **94c:58149**
Flaminio, Livio *see* **Fathi, A., 94c:58149**
Harer, John L. *see* **Penner, Robert C., 94b:57018**
Harvey, W. J. On certain families of compact Riemann surfaces. (English summary) **94h:32036**
Imayoshi, Y. (*with* Taniguchi, Masahiko) ★ An introduction to Teichmüller spaces. (English summary) **94b:32031**
Ivanov, N. V. On the homology stability for Teichmüller modular groups: closed surfaces and twisted coefficients. **94h:57022**
Kra, Irwin *see* **Earle, C. J.; et al., 94h:32035**
Krushkal', S. L. *see* **Earle, C. J.; et al., 94h:32035**
Li, Zhong Nonuniqueness of geodesics in infinite-dimensional Teichmüller spaces. II. (English summary) **94h:32037**
Luo, Feng Monodromy groups of projective structures on punctured surfaces. **94b:32032**
Masur, Howard Logarithmic law for geodesics in moduli space. **94h:32038**
— (*with* Smillie, John) Quadratic differentials with prescribed singularities and pseudo-Anosov diffeomorphisms. **94d:32028**
Otal, Jean-Pierre Sur le bord du prolongement de Bers de l'espace de Teichmüller. (English and French summaries) [On the boundary of the Bers embedding of Teichmüller space] **94b:32033**
Partyka, Dariusz Generalized harmonic conjugation operator. (English summary) **94g:30019**
Penner, Robert C. (*with* Harer, John L.) ★ Combinatorics of train tracks. **94b:57018**
— (*with* Waterman, Michael S.) Spaces of RNA secondary structures. (English summary) **94j:92006**
— Universal constructions in Teichmüller theory. (English summary) **94k:32032**
— The Poincaré dual of the Weil-Petersson Kähler two-form. (English summary) **94i:32025**
Petronio, Carlo *see* **Benedetti, Riccardo, 94e:57015**
Roland, Kaj Beltrami differentials and ghost correlators in the Schottky parametrization. (English summary) **94h:81122**
Schmutz, Paul Die Parametrisierung des Teichmüllerraumes durch geodätische Längenfunktionen. [The parametrization of Teichmüller space by geodesic length functions] **94g:32028**
Seppälä, Mika (*with* Sorvali, Tuomas) ★ Geometry of Riemann surfaces and Teichmüller spaces. **94b:32034**
Smillie, John *see* **Masur, Howard, 94d:32028**
Sorvali, Tuomas *see* **Seppälä, Mika, 94b:32034**
Sullivan, Dennis P. Linking the universalities of Milnor-Thurston, Feigenbaum and Ahlfors-Bers. **94c:58060**
Taniguchi, Masahiko *see* **Imayoshi, Y., 94b:32031**
Toki, Masahiko On nonstarlikeness of Teichmüller spaces. (English summary) **94h:32039**
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Annals of Mathematics Studies *see* **Penner, Robert C., 94b:57018**

30F99 None of the above, but in this section

Bowers, Philip L. (*with* Stephenson, Kenneth) Circle packings in surfaces of finite type: an in situ approach with applications to moduli. **94d:30083**
Hu, Pei Chu (*with* Yang, Ming Ze) A theorem of differential mappings of Riemann surfaces. (English summary) **94k:30103**
Jing, Pei Dong The Runge approximation theorem and the Mittag-Leffler theorem for the equation $\bar{\partial}u + au = 0$ on noncompact Riemann surfaces. (Chinese. Chinese summary) **94f:30057**
Nasyrov, S. R. Convergence to the kernel of Riemann surfaces and their universal coverings. (Russian) **94k:30104**
Stephenson, Kenneth *see* **Bowers, Philip L., 94d:30083**
Yang, Ming Ze *see* **Hu, Pei Chu, 94k:30103**
Yoshida, Katsuaki Automorphisms with fixed points and Weierstrass points of compact Riemann surfaces. **94j:30040**

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Abdualeva, I. I. On the uniqueness of solutions of differential equations on Riemann surfaces. (Russian. English and Georgian summaries) **94m:35043**
Bödigheimer, Carl-Friedrich Interval exchange spaces and moduli spaces. (English summary) **94m:57036**
Dolbeault, Pierre (*with* Khenkin, G. M.) Surface de Riemann de bord donné dans $\mathbf{CP}^2$. (English and French summaries) [Riemann surfaces of given boundary in $\mathbf{CP}^2$] **94i:32011**
Gilman, Jane Recent developments in Nielsen theory and discrete groups. (English summary) **94j:55005**
Kawazumi, Nariya On the complex analytic Gel'fand-Fuks cohomology of open Riemann surfaces. (English and French summaries) **94i:58211**
Khenkin, G. M. *see* **Dolbeault, Pierre, 94i:32011**
Monakhov, V. N. (*with* Verkhovod, D. B.; Semenko, E. V.) ★ Краевые задачи для квазианалитических функций на компактных римановых поверхностях. (Russian. Russian summary) [Boundary value problems for quasi-analytic functions on compact Riemann surfaces] **94d:30074**
Niino, Kiyoshi On an ultrahyperelliptic surface with Picard constant three. **94m:30063**
Semenko, E. V. *see* **Monakhov, V. N.; et al., 94d:30074**
Souam, Rabah Exemples d'applications holomorphes d'indice un. (English and French summaries) [Examples of holomorphic mappings of index one] **94f:58130**
Sun, Dao Chun An improved Ahlfors inequality. (Chinese. English and Chinese summaries) **94d:30042**
Verkhovod, D. B. *see* **Monakhov, V. N.; et al., 94d:30074**
Winkelmann, Jörg The Oka-principle for mappings between Riemann surfaces. **94e:32040**

30Gxx Generalized function theory

30G06 Non-Archimedean function theory [see also 12J25]; nonstandard function theory [see also 03H05]

Fruchard, Augustin Prolongement analytique et systèmes dynamiques discrets. (English summary) [Analytic continuation and discrete dynamical systems] **94e:30019**

Items with secondary classifications in 30G06

Bailey, R. A. (*with* Rowley, C. A.) Maximal rank of an element of a tensor product. (English summary) **94a:15046**
Christol, Gilles p-adic numbers and ultrametricity. **94f:11126**
Rowley, C. A. *see* **Bailey, R. A., 94a:15046**

30G20 Generalizations of Bers or Vekua type (pseudoanalytic, p-analytic, etc.)

Balk, M. B. (*with* Vasilenkov, V. P.) Some boundary uniqueness theorems for polyanalytic functions. (Russian. Russian summary) (*see* **94c:00021**)

— (*with* Vassilenkov, V. P.) On the boundary behaviour of polyanalytic functions. (*see* **94m:00023**)
Binderman, Zbigniew On singular boundary value problems for generalized analytic functions. (English, Russian and Polish summaries) **94m:30088**
Bondar', A. V. (*with* Luk'yanova, E. A.) On the pseudo-analyticity of continuous functions with constant σ-dilatation. (Russian. Russian and Ukrainian summaries) **94i:30041**
Dimitrovski, Dragan (*with* Ilievski, Borko) Quadratures in areolar equations. (English summary)
Gomonov, S. A. Limit sets for rational functions of two complex conjugate variables at the point ∞. (Russian. Russian summary) (*see* **94c:00021**)
Ilievski, Borko An application of the Laplace areolar integral for solving areolar linear equations. (English summary)
— *see also* **Dimitrovski, Dragan**
Kapishev, G. K. A special case of the linear conjugation problem for generalized hyperanalytic functions. (Russian. English, Russian and Kazakh summaries)
Koca, K. Über eine Darstellung von Lösungen der komplexen Differentialgleichung $w_{\overline{z}} = b_{(F,G)}\overline{w}$. [On a representation of solutions of the complex differential equation $w_{\overline{z}} = b_{(F,G)}\overline{w}$] **94m:30089**
Luk'yanova, E. A. *see* **Bondar', A. V., 94i:30041**
Makatsariya, G. T. On maximum principle for a class of elliptic systems of differential equations on the plane. (Russian and Georgian summaries) **94i:30042**
Pletner, Yu. D. New classes of generalized analytic functions. (Russian) **94m:30090**
Rasulov, K. M. Solution of boundary value problems of Dirichlet and Schwarz type for polyanalytic functions. (Russian. Russian summary) (*see* **94c:00021**)
— A general approach to the solution of classical boundary value problems for polyanalytic functions and their generalizations. (Russian. Russian summary) **94g:30044**
Tungatarov, A. B. The Riemann-Hilbert problem for an elliptic system in the plane with a singular point. (Russian. English, Russian and Kazakh summaries) **94m:30091**
— On the theory of the generalized Cauchy-Riemann system with a singular point. (Russian. English and Russian summaries) **94j:30041**
Vasilenkov, V. P. *see* **Balk, M. B., (94c:00021)**
Vassilenkov, V. P. *see* **Balk, M. B., (94m:00023)**
Withalm, C. Interdependent components of generating systems in the theory of pseudo-holomorphic functions. (English summary) **94k:30105**
Zeng, Yue Sheng A representation theorem for pseudohyperanalytic functions. (Chinese. English and Chinese summaries)
— (F, G)-integral of pseudohyperanalytic matrix functions. (English and Chinese summaries) **94k:30106**
— On pseudo-hyperanalytic matrix functions. (English and Chinese summaries) **94m:30092**

Items with secondary classifications in 30G20

Alikulov, È. O. Some differential properties of complex functions. (Russian. Russian summary) **94d:26005**
(Balk, M. B.) *see* **Studies in polyanalytic functions and their generalizations, 94c:00021**
Becker, Brigitte Karin Die Integralgleichungsmethode für ein elliptisches Randwertproblem halbzahliger Charakteristik. (German summary) [The method of integral equations for an elliptic boundary value problem of half-integral characteristic] **94h:35036**
Bondar', A. V. (*with* Luk'yanova, E. A.) On the structure of sets of σ-monogeneity of continuous functions. (Russian. Russian and Ukrainian summaries) **94g:30001**
Dimitrovski, Dragan (*with* Rajović, Miloje) Sur l'équation différentielle aréolaire linéaire aux coefficients "constants". L'équation aréolaire d'Euler. (Serbo-Croatian summary) [Linear areolar differential equations with "constant" coefficients. The areolar Euler equation] **94e:34007**
Dzhuraev, A. D. First-order elliptic systems degenerated at the boundary. (English summary) **94k:35089**
Ilievski, Borko On some quadratures in certain special classes of the Vekua equations. (English and Macedonian summaries)
Kovács, A. Beiträge im Bereich der Anwendung p-analytischer Funktionen in der Hydrodynamik der Netze. (Romanian summary) [Contributions to the application of p-analytic functions in the hydrodynamics of cascades] **94a:76011**
Luk'yanova, E. A. *see* **Bondar', A. V., 94g:30001**
Povolotskiĭ, A. I. (*with* Utepkaliev, S. U.) Investigation of the nonlinear Cauchy-Riemann system in Orlicz spaces. (Russian) **94a:35048**
Rajović, Miloje *see* **Dimitrovski, Dragan, 94e:34007**
Rihawi, Falak Fixpunktmethoden für ebene Randwertprobleme quasilinearer Differentialgleichungen im Vergleich. [Comparison of fixed-point methods for plane boundary value problems of quasilinear differential equations] **94e:35056**
Shatalov, V. E. *see* **Sternin, B. Yu., 94e:35038**
Sternin, B. Yu. (*with* Shatalov, V. E.) Continuation of solutions to elliptic equations and localization of singularities. **94e:35038**
Tungatarov, A. B. On the existence of continuous solutions of the Carleman-Vekua equation with a singular point. (Russian)
Utepkaliev, S. U. *see* **Povolotskiĭ, A. I., 94a:35048**

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Studies in polyanalytic functions and their generalizations ★ Исследования по полианалитическим функциям и их обобщениям. (Russian) [Studies in polyanalytic functions and their generalizations] **94c:00021**

30G30 Other generalizations of analytic functions (including abstract-valued functions)

Balk, M. B. (*with* Vasilenkov, V. P.) Boundary properties of polyanalytic functions in Jordan domains. (Russian)
Georgijević, Dušan R. Radial Nth derivatives of bounded analytic operator functions. (English summary) **94k:30107**
Tutschke, Wolfgang A simplified construction of generalized analytic functions in several complex variables. (English summary) **94b:30057**
Vasilenkov, V. P. *see* **Balk, M. B.**
Winkler, Jörg A uniqueness theorem for monogenic functions. (English summary) **94f:30058**

Items with secondary classifications in 30G30

Borichev, A. A. Completeness of systems of translates and uniqueness theorems for asymptotically holomorphic functions. (*see* **94e:41001**)
Hu, Chuan Gan (*with* Yang, Chung-Chun) ★ Vector-valued functions and their applications. **94a:30001**
Yang, Chung-Chun *see* **Hu, Chuan Gan, 94a:30001**

30G35 Functions of hypercomplex variables and generalized variables

Abul-Ez, M. A. On the addition of basic sets of special monogenic polynomials. (English summary) **94j:30042**
Auberson, G. Monogenic continuation for vector fields. (English summary) **94f:30059**
Bogashov, F. A. The structure of higher-dimensional analytic functions and the formulation of generalized Airy functions. (Russian) **94f:30060**
(Brackx, F.) *see* **Delanghe, R.; et al., 94d:30084**
(Constales, D.) *see* **Delanghe, R.; et al., 94d:30084**
Delanghe, R. (*with* Sommen, F.; Souček, Vladimír) ★ Clifford algebra and spinor-valued functions. **94d:30084**
— (*with* Sommen, F.; Souček, Vladimír) Residues in Clifford analysis. **94b:30058**
Fleury, N. (*with* Rausch de Traubenberg, M.; Yamaleev, R. M.) Commutative extended complex numbers and connected trigonometry. (English summary) **94m:30093**
Kravchenko, V. V. (*with* Shapiro, M. V.) On a generalized system of Cauchy-Riemann equations with a quaternion parameter. (Russian)
Królikowski, Wiesław (*with* Ramírez de Arellano, Enrique) Fueter-Hurwitz regular mappings and an integral representation. (English summary) **94g:30045**
— (*with* Porter, R. Michael) Quaternionic regular and biregular functions in the sense of Fueter. **94g:30046**
Kuznetsov, S. P. On B-sets in Clifford algebras. (Russian. Russian summary) (*see* **94i:00010**)
— (*with* Mochalov, V. V.) Automorphisms of the Clifford algebra, and strongly regular functions. (Russian) **94h:30058**
Lê Hùng So'n Monogenic functions with parameters in Clifford analysis. (English summary) **94a:30036**
Lugojan, Sorin Quaternionic derivability. (English summary)
Malonek, Helmuth R. On the application of a permutational product in the theory of monogenic functions. (Russian. Russian summary) (*see* **94f:00015**)
Marinov, Marin Stefanov On the complex parts of hyperholomorphic functions. **94f:30061**
Mochalov, V. V. *see* **Kuznetsov, S. P., 94h:30058**
Porter, R. Michael *see* **Królikowski, Wiesław, 94g:30046**
Pu, De Qian Functions of generalized complex numbers. (Chinese. English summary)
— Functions of trebly complex variables. (*see* **94m:30001**)
Ramírez de Arellano, Enrique *see* **Królikowski, Wiesław, 94g:30045**
Rausch de Traubenberg, M. *see* **Fleury, N.; et al., 94m:30093**
Roberts, D. E. Clifford algebras and vector-valued rational forms. II. (English summary) **94h:30059**
Ryan, John Generalized Schwarzian derivatives for generalized fractional linear transformations. (English summary) **94f:30062**
Shapiro, M. V. *see* **Kravchenko, V. V.**
Sommen, F. (*with* Souček, Vladimír) Monogenic differential forms. (English summary) **94h:30060**
— (*with* Van Acker, N.) Monogenic differential operators. (English summary) **94e:30020**
— *see also* **Delanghe, R.; et al., 94b:30058** *and* **94d:30084**
Souček, Vladimír *see* **Delanghe, R.; et al., 94b:30058; 94d:30084** *and* **Sommen, F., 94h:30060**
Tran Quyet Thang Extension problem for the generalized biregular functions in Clifford analysis. (English summary) **94j:30043**
Van Acker, N. *see* **Sommen, F., 94e:30020**
Waterhouse, William C. Analyzing some generalized analytic functions. **94c:30056**
Yamaleev, R. M. *see* **Fleury, N.; et al., 94m:30093**
Zeng, Yue Sheng Certain hypercomplex equations with nonsmooth coefficients. (Chinese. English and Chinese summaries)
— Riemann boundary value problems for hyperanalytic functions on rectifiable Jordan closed curves. (Chinese. English and Chinese summaries) **94f:30063**

Items with secondary classifications in 30G35

Balabaev, V. E. First-order complex elliptic systems. (Russian. Russian summary) **94m:35050**
Evans, Mark (*with* Gürsey, Feza; Ogievetskiĭ, V. I.) From two-dimensional conformal to four-dimensional self-dual theories: quaternionic analyticity. (English summary) **94e:81180**
Gürsey, Feza Conformal and quasi-conformal structures in space-time. (English summary) **94g:81090**
— *see also* **Evans, Mark; et al., 94e:81180**
Królikowski, Wiesław (*with* Ramírez de Arellano, Enrique) Polynomial solutions of the Fueter-Hurwitz equation. (English summary) **94a:32005**
Laville, G. Monogenic and holomorphic functions. (English summary) **94m:15024**
Lawrynowicz, Julian The normed maps $\mathbf{R}^{11} \times \mathbf{R}^{11} \to \mathbf{R}^{26}$ in hypercomplex analysis and in physics. (English summary) **94e:81104**
Malonek, Helmuth R. (*with* Müller, Bernd) Definition and properties of a hypercomplex singular integral operator. **94g:47062**
Mitelman, Igor M. (*with* Shapiro, M. V.) Formulae of changing of integration order and of inversion for some multidimensional singular integrals and hypercomplex analysis. (English summary) **94k:32004**
Müller, Bernd *see* **Malonek, Helmuth R., 94g:47062**
Nôno, K. On the linearization of a partial differential operator and p-hyperholomorphic functions. (English summary) **94c:32003**
Ogievetskiĭ, V. I. *see* **Evans, Mark; et al., 94e:81180**
Ramírez de Arellano, Enrique *see* **Królikowski, Wiesław, 94a:32005**

Shapiro, M. V. *see* **Mitelman, Igor M., 94k:32004**
Tiago de Oliveira, J. C. B. A brief essay on the extension to quaternions of the exponential, logarithm and power. (Portuguese. English summary)
Vasilevskiĭ, N. L. On an algebra generated by abstract singular operators and a shift operator. **94g:47063**
Waterhouse, William C. Differentiable functions on algebras and the equation $\operatorname{grad}(w) = M\operatorname{grad}(v)$. (English summary) **94a:58025**
Zhang, Wan Guo The Neumann boundary value problem in quaternionic analysis. (Chinese. Chinese summary) **94c:35049**

30G99 None of the above, but in this section

Items with secondary classifications in 30G99

Berndtsson, Bo Levi-flat surfaces with circular sections. **94e:32031**

30H05 Spaces and algebras of analytic functions [see also 32E25, 46Exx, 46J15]

Brück, Rainer (*with* Müller, Jürgen[3]) Invertible elements in a convolution algebra of holomorphic functions. **94a:30037**
Gorina, O. V. Solvability of the convolution equation in the Gevrey class of functions that are analytic in a nonconvex domain. (Russian. Russian summary) **94c:30057**
Gouma, Tomomi Isomorphism of meromorphic function fields on Riemann surfaces. **94d:30085**
Kalinin, S. I. On the approximation of solutions of a homogeneous convolution equation with several unknown functions. (Russian) **94k:30108**
Korobeĭnik, Yu. F. Some sets of entire functions that are invariant with respect to the convolution operator. (Russian) (*see* **94i:46001**)
— (*with* Melikhov, S. N.) A linear continuous right inverse operator for the representation operator, and applications to convolution operators. (Russian. English and Russian summaries) **94e:30021**
Melikhov, S. N. Über absolut repräsentierende Systeme aus Quasipolynomen in Räumen analytischer Funktionen. [On absolutely representing systems from quasipolynomials in spaces of analytic functions] **94g:30047**
— *see also* **Korobeĭnik, Yu. F., 94e:30021**
Müller, Jürgen[3] *see* **Brück, Rainer, 94a:30037**
Napalkov, V. V. (*with* Yulmukhametov, R. S.) Weighted Fourier-Laplace transforms of functionals analytic in the disk. (Russian. Russian summary) **94c:30058**
— (*with* Solomesh′, Michail) Convolution type systems in some spaces of analytic functions. **94i:30043**
Solomesh′, Michail *see* **Napalkov, V. V., 94i:30043**
Yulmukhametov, R. S. *see* **Napalkov, V. V., 94c:30058**

Items with secondary classifications in 30H05

Aleman, Alexandru Compact composition operators and iteration. **94a:47051**
Alpay, Daniel A theorem on reproducing kernel Hilbert spaces of pairs. (English summary) **94b:46035**
Amar, Éric A problem of ideals. (English summary) **94j:32011**
Anderson, James Milne Coefficient multipliers and solid spaces. **94i:46037**
Atzmon, Aharon Nuclear Fréchet spaces of entire functions with transitive differentiation. **94j:47044**
Belinskiĭ, È. S. Strong summability of periodic functions and embedding theorems. (Russian) **94k:42010**
Bhattacharya, D. K. (*with* Manna, S.) Existence of identity and related problems in the space of entire Dirichlet series. (English summary) **94b:30005**
Bierstedt, Klaus-D. (*with* Summers, W. H.) Biduals of weighted Banach spaces of analytic functions. (English summary) **94a:46027**
Blasco De La Cruz, Oscar Multipliers on weighted Besov spaces of analytic functions. (English summary) **94m:42022**
Boricheva, I. A. (*with* Dyn′kin, E. M.) A nonclassical problem of free interpolation. (Russian. Russian summary) **94a:30027**
Carmona, Juan José (*with* Cufí, Julià; Menal, Pere) On the unit-1-stable rank of rings of analytic functions. (English summary) **94c:46103**
Cufí, Julià *see* **Carmona, Juan José; et al., 94c:46103**
Dineen, Seán The τ_w topology on spaces of holomorphic functions.
Dovgoshei, A. A. Continua with Dirichlet properties and products of Hardy spaces. (Russian. Russian and Ukrainian summaries) **94d:46024**
Drigojias, Ioannis Approximationseigenschaft und Dualität von gewichteten $H^{(p)}$-Räumen. [The approximation property and duality of weighted $H^{(p)}$ spaces] **94f:46031**
Duren, Peter L. (*with* Khavinson, Dmitry; Shapiro, Harold S.; Sundberg, Carl) Contractive zero-divisors in Bergman spaces. (English summary) **94c:30048**
Dyn′kin, E. M. *see* **Boricheva, I. A., 94a:30027**
Galbis, Antonio Weighted Banach spaces of entire functions. **94j:46028**
Gorina, O. V. An infinite-order differential operator in a space of analytic functions that have prescribed growth near the boundary. (Russian) **94m:47063**
de Graaf, Jan Riesz bases of special polynomials in weighted Sobolev spaces of analytic functions. (English summary) **94j:46040**
Guo, Kun Yu (*with* Zhang, Chao Lun) Remarks on fibers on the Shilov boundary X of H^∞. (Chinese. English and Chinese summaries) **94c:30044**
Hedenmalm, Håkan A factoring theorem for a weighted Bergman space. **94d:30064**
— An invariant subspace of the Bergman space having the codimension two property. **94k:30092**
Jevtić, Miroljub An embedding theorem for A^p_α spaces. (English summary) **94h:30048**
Jovanović, Ivan On a representation theorem for spaces A^p_α. (English summary) **94j:30035**
Khavinson, Dmitry *see* **Duren, Peter L.; et al., 94c:30048**
Korenblum, Boris (*with* Stessin, Michael I.) On Toeplitz-invariant subspaces of the Bergman space. (English summary) **94f:30049**
— Outer functions and cyclic elements in Bergman spaces. (English summary) **94h:46038**
Körner, T. W. A cheaper Swiss cheese. (English summary) **94e:46091**
Korobeĭnik, Yu. F. (*with* Melikhov, S. N.) A linear continuous right inverse for the representation operator, and conformal mappings. (Russian) **94c:46047**
Lassere, Patrice *see* **Nguyen Thanh Van, 94i:30004**
LeBlanc, Emile A. Recent advances in the theory of zero sets of the Bergman spaces. (English summary) **94e:30011**
Lĕvshina, G. D. Some properties of Lipschitz functions in the unit disk and in the unit ball. (Russian) **94f:30048**
— Coefficient multipliers of Lipschitz functions. (Russian. Russian summary) **94f:30047**
Lin, Kai-Ching On the constants in the corona theorem and the ideals of H^∞. (English summary) **94j:30033**
Lotto, B. A. Toeplitz operators on weighted Hardy spaces. **94d:47023**
MacDonald, Gordon Wilson Hilbert spaces of q-shifted factorial series. **94e:46048**
Manna, S. *see* **Bhattacharya, D. K., 94b:30005**
Melikhov, S. N. *see* **Korobeĭnik, Yu. F., 94c:46047**
Menal, Pere *see* **Carmona, Juan José; et al., 94c:46103**
Merzlyakov, S. G. On the closedness of the range of a difference operator. (Russian) **94h:47058**
Müller, Jürgen[3] Coefficient multipliers from $H(G_1)$ into $H(G_2)$. **94f:30002**
Nguyen Thanh Van (*with* Lassere, Patrice) Bases communes holomorphes: nouvelle extension du théorème de Whittaker. (French summary) [Holomorphic common bases: a new extension of Whittaker's theorem] **94i:30004**
Pavlović, Miroslav On isomorphisms of L^1 spaces of analytic functions onto l^1. (English summary) **94i:46041**
Pełczyński, Aleksander Nonisomorphism of the disc algebra with spaces of differentiable functions. (English summary) **94b:46081**
Prada, J. Operators commuting with differentiation. **94d:47032**
Rachkov, A. V. *see* **Vlasov, V. I., 94j:46043a** *and* **94j:46043b**
Richter, Stefan (*with* Sundberg, Carl) Invariant subspaces of the Dirichlet shift and pseudocontinuations. **94d:47026**
Seip, Kristian Beurling type density theorems in the unit disk. (English summary) **94g:30033**
Shamoyan, F. A. Closed ideals in algebras of functions that are analytic in the disk and smooth up to its boundary. (Russian. Russian summary) **94m:46087**
Shapiro, Harold S. *see* **Duren, Peter L.; et al., 94c:30048**
Shiga, Hiroshige H^1-BMO duality on Riemann surfaces. **94d:30080**
Stessin, Michael I. *see* **Korenblum, Boris, 94f:30049**
Summers, W. H. *see* **Bierstedt, Klaus-D., 94a:46027**
Sundberg, Carl *see* **Duren, Peter L.; et al., 94c:30048** *and* **Richter, Stefan, 94d:47026**
Tanaka, Jun-ichi Flows in fibers. (English summary) **94h:46081**
Vlasov, V. I. (*with* Rachkov, A. V.) Weighted Hardy-type spaces. (Russian) **94j:46043a**
— (*with* Rachkov, A. V.) Correction to: "Weighted Hardy-type spaces". (Russian) **94j:46043b**
Zhang, Chao Lun *see* **Guo, Kun Yu, 94c:30044**
Zhu, Ke He A Forelli-Rudin type theorem with applications. **94a:30008**
Zorboska, Nina Composition operators with closed range. (English summary) **94k:47050**

31–XX Potential theory {For probabilistic potential theory, see 60J45.}

31–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 31–01

Gelbaum, Bernard R. ★ Problems in real and complex analysis. (English summary) **94d:00003**

31–02 Research exposition (monographs, survey articles)

Bauer, Heinz Behaviour of solutions of elliptic-parabolic differential equations at irregular boundary points. **94d:31001**
Hedberg, Lars Inge Approximation by harmonic functions, and stability of the Dirichlet problem. **94k:31001**

31–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 31–06

(Bertin, E. M. J.) *see* **Proceedings: Conference on Potential Theory, 94i:00016**

Items listed otherwise than by author

Amersfoort ★ Proceedings from the International Conference on Potential Theory. **94i:00016**
Conference:
Potential Theory ★ Proceedings from the International Conference on Potential Theory. **94i:00016**
Proceedings:
Conference on Potential Theory ★ Proceedings from the International Conference on Potential Theory. **94i:00016**

31Axx Two-dimensional theory

31A05 Harmonic, subharmonic, superharmonic functions

Brossard, Jean (*with* Chevalier, Lucien) Majoration harmonique et mouvement brownien. [Harmonic majorization and Brownian motion] **94g:31001**
Chevalier, Lucien *see* **Brossard, Jean**, **94g:31001**
Clunie, J. G. (*with* Erëmenko, A. È.; Rossi, John F.) On equilibrium points of logarithmic and Newtonian potentials. (English summary) **94c:31001**
Cranston, Michael C. (*with* Salisbury, Thomas S.) Martin boundaries of sectorial domains. (English summary) **94k:31002**
Erëmenko, A. È. (*with* Fuglede, Bent; Sodin, M. L.) On the Riesz charge of the lower envelope of δ-subharmonic functions. (English summary) **94i:31001**
— *see also* **Clunie, J. G.; et al., 94c:31001**
Fuglede, Bent *see* **Erëmenko, A. È.; et al., 94i:31001**
Gao, Qi Ren Fine boundary limits of superharmonic functions. (Chinese. English and Chinese summaries) **94m:31001**
Imomkulov, S. A. Twice differentiability of subharmonic functions. (Russian. Russian summary) **94c:31002**
Paramonov, P. V. Approximations by harmonic polynomials in the C^1-norm on compact sets in $\mathbf{R}^2$. (Russian. Russian summary) **94h:31001**
Rashkovskiĭ, A. Yu. On the radial projection of a harmonic measure. (Russian) **94g:31002**
Rossi, John F. *see* **Clunie, J. G.; et al., 94c:31001**
Salisbury, Thomas S. *see* **Cranston, Michael C., 94k:31002**
Sodin, M. L. *see* **Erëmenko, A. È.; et al., 94i:31001**
Wegmann, Rudolf Extremal problems for harmonic mappings from the unit disc to convex regions. (English summary) **94j:31001**
Xie, Hui Chun A note on the extremum principle for harmonic functions. (Chinese. English and Chinese summaries)
Zabolotskiĭ, N. V. Lower types of δ-subharmonic functions of nonintegral order. (Ukrainian. Russian and Ukrainian summaries) **94f:31001**

Items with secondary classifications in 31A05

Bell, Steven R. The Cauchy transform, the Szegő projection, the Dirichlet problem, and the Ahlfors map. **94f:31002**
Essén, Matts Some best constant inequalities for conjugate functions. (English summary) **94b:30043**
Fryntov, A. E. A counterexample concerning the maximum and minimum of a subharmonic function. (English summary) **94k:30064**
Hansen, Wolfhard (*with* Nadirashvili, N. S.) A converse to the mean value theorem for harmonic functions. (English summary) **94m:31004a**
— (*with* Nadirashvili, N. S.) Mean values and harmonic functions. **94m:31004b**
Koosis, Paul ★ The logarithmic integral. II. **94i:30027**
Levin, B. Ya. (*with* Logvinenko, V. N.; Sodin, M. L.) Subharmonic functions of finite degree bounded on subsets of the "real hyperplane". **94c:31004**
Logvinenko, V. N. *see* **Levin, B. Ya.; et al., 94c:31004**
Nadirashvili, N. S. *see* **Hansen, Wolfhard**, **94m:31004a** *and* **94m:31004b**
Sattayatham, Pairote On the functions that preserve harmonicity in the Euclidean space. **94k:31004**
Sodin, M. L. *see* **Levin, B. Ya.; et al., 94c:31004**
Supper, Raphaële Quelques applications liées aux fonctionnelles analytiques. [Some applications associated with analytic functionals] **94k:46081**
Vondraček, Zoran On some extremal elements in the cone $\mathcal{R}^{\inf}$. (English and Serbo-Croatian summaries) **94i:31006**
Wang, Huai Ch'ūan Semilinear elliptic problems on an infinite strip and its related domains. (English summary) **94k:35101**
Zhang, Yu Lin Univalent harmonic mappings. (Chinese. English and Chinese summaries) **94k:30042**

31A10 Integral representations, integral operators, integral equations methods

Bell, Steven R. The Cauchy transform, the Szegő projection, the Dirichlet problem, and the Ahlfors map. **94f:31002**
Lubuma, Jean Mbaro-Saman Error estimates in projective solutions of the Radon equation. (English summary) **94g:31003**

Items with secondary classifications in 31A10

Ahuja, Gopi An application of the generalized Lowndes operators. **94h:26008**
Berg, Christian (*with* Leutwiler, Heinz) On the representability of harmonic functions as Newtonian potentials. (English summary) **94j:31003**
Leutwiler, Heinz *see* **Berg, Christian**, **94j:31003**
Li, Luo Qing Approximation of spherical functions by Cesàro means on a set of full measure. (Chinese. Chinese summary) **94f:41027**
Zhitomirskiĭ, Ya. I. Potentials for the Schrödinger equation. (Russian) **94m:35053**

31A15 Potentials and capacity, harmonic measure, extremal length [see also 30C85]

Jenkins, James A. On the existence of certain general extremal metrics. II. (English summary) **94h:31002**
Laugesen, Richard Extremal problems involving logarithmic and Green capacity. **94g:31004**
Nguyen Xuan Uy A note on analytic capacity. (English summary) **94a:31001**
Wolff, Thomas H. Plane harmonic measures live on sets of σ-finite length. **94d:31002**

Items with secondary classifications in 31A15

Belyĭ, V. I. (*with* Kravchuk, E. V.) Some explicit relations for the reduced modulus and harmonic measure. (Russian. Russian and Ukrainian summaries) **94g:30027**
Berg, Christian (*with* Leutwiler, Heinz) On the representability of harmonic functions as Newtonian potentials. (English summary) **94j:31003**
Essén, Matts On minimal thinness, reduced functions and Green potentials. (English summary) **94c:31003**
Gilewicz, Jacek (*with* Pleśniak, Wiesław) Distribution of zeros of sequences of polynomials revisited. (English summary) **94m:30077**
Hedberg, Lars Inge Approximation by harmonic functions, and stability of the Dirichlet problem. **94k:31001**
Kravchuk, E. V. *see* **Belyĭ, V. I., 94g:30027**
Lalley, Steven P. Brownian motion and the equilibrium measure on the Julia set of a rational mapping. (English summary) **94f:58079**
Leutwiler, Heinz *see* **Berg, Christian**, **94j:31003**
Levenberg, Norman (*with* Reichel, Lothar) A generalized ADI iterative method. (English summary) **94k:65046**
Pleśniak, Wiesław *see* **Gilewicz, Jacek**, **94m:30077**
Rashkovskiĭ, A. Yu. On the radial projection of a harmonic measure. (Russian) **94g:31002**
Reichel, Lothar *see* **Levenberg, Norman**, **94k:65046**
Shlyk, V. A. Normal domains and removable singularities. (Russian. Russian summary) **94m:31005**
Sodin, M. L. An elementary proof of Benedicks's and Carleson's estimates of harmonic measure of linear sets. (English summary) **94j:30022**
Stoll, Manfred Composition of potentials with inner functions. (English summary) **94b:31006**
Sweezy, Caroline The Hausdorff dimension of elliptic and elliptic-caloric measure in $\mathbf{R}^N$, $N \geq 3$. (English summary) **94i:35060**
Vol'berg, A. L. On the harmonic measure of self-similar sets on the plane. **94d:30041**

31A20 Boundary behavior (theorems of Fatou type, etc.)

Ash, J. Marshall (*with* Brown, Russell M.) Uniqueness and nonuniqueness for harmonic functions with zero nontangential limits. **94m:31002**
Berman, Robert D. (*with* Singman, David) Intermittent oscillation and tangential growth of functions with respect to Nagel-Stein regions on a half-space. **94i:31002**
Brown, Russell M. *see* **Ash, J. Marshall**, **94m:31002**
Essén, Matts On minimal thinness, reduced functions and Green potentials. (English summary) **94c:31003**
Singman, David *see* **Berman, Robert D., 94i:31002**

Items with secondary classifications in 31A20

Gardiner, Stephen J. Boundary behaviour of holomorphic and harmonic functions. (English summary) **94d:30059**
Koosis, Paul ★ The logarithmic integral. II. **94i:30027**
Stoll, Manfred Composition of potentials with inner functions. (English summary) **94b:31006**
Vagarshakyan, A. A. On the maximum principle. (Russian. English, Russian and Armenian summaries) **94h:30031**

31A25 Boundary value and inverse problems

Fabrikant, V. I. Dirichlet problem for an annular disk. (English summary) **94h:31003**
Kapanadze, D. V. On the uniqueness of the solution of an inverse problem in potential theory. (Russian. English and Georgian summaries) **94i:31003**
Kounchev, Ognyan Zeros of nonnegative sub-biharmonic functions and extremal problems in the inverse source problem for the biharmonic potential. **94i:31004**
Loukianov, O. Y. Problème inverse de la théorie du potentiel logarithmique pour les lemniscates. (English summary) [Inverse problem of the theory of the logarithmic potential for lemniscates] **94k:31003**
Serikbaev, A. U. On the stability of an inverse problem of external potential of Weber type. (Russian. English, Russian and Kazakh summaries)
Ton Tran Cong On Helmholtz's decomposition theorem and Poisson's equation with an infinite domain. **94b:31001**

Items with secondary classifications in 31A25

Ash, J. Marshall (*with* Brown, Russell M.) Uniqueness and nonuniqueness for harmonic functions with zero nontangential limits. **94m:31002**
Bell, Steven R. The Cauchy transform, the Szegő projection, the Dirichlet problem, and the Ahlfors map. **94f:31002**
Brown, Russell M. *see* **Ash, J. Marshall**, **94m:31002**
Fabrikant, V. I. ★ Mixed boundary value problems of potential theory and their applications in engineering. **94g:35213**
— (*with* Karapetian, E. N.) Elementary exact method for solving mixed boundary-value problems of potential theory, with application to half-plane contact and crack problems. (English summary) **94k:73026**
Karapetian, E. N. *see* **Fabrikant, V. I., 94k:73026**
Katrakhov, V. V. A boundary value problem for the Poisson equation with singularities of arbitrary order at boundary points. (Russian) **94g:35055**
Kovács, A. Das Lösen eines Dirichlet Problems modifiziert in einem mehrfach konex Bereich mit Hilfe der Potentialtheorie. (Romanian summary) [The solution of a Dirichlet problem modified in a multiply connected domain, with the aid of potential theory] (*see* **94j:00024**)
Král, Josef (*with* Medková, Dagmar) On the Neumann operator of the arithmetical mean. **94b:35089**
Loukianov, O. Y. Application du prolongement analytique au problème inverse du potentiel. (English and French summaries) [Application of analytic continuation to the inverse potential problem] **94i:31010**
Medková, Dagmar *see* **Král, Josef**, **94b:35089**
Moritz, Helmut General considerations regarding inverse and related problems. **94i:35195**
Pritsker, I. E. On the continuity of harmonically conjugate functions in Jordan domains. (Russian. Russian and Ukrainian summaries) **94b:30048**
Tlyusten, S. R. Multivalent conformal mappings with a composite free boundary. (Russian) **94b:30011**

Zakharov, S. V. On peculiarities in the interpretation of two-dimensional potential fields of layered media. (Russian. Russian summary) **94b:86003**

31A30 Biharmonic, polyharmonic functions and equations, Poisson's equation

Mel'nichenko, I. P. (*with* Plaksa, S. A.) On the fundamental biharmonic problem for a quadrant. (Russian. Russian summary) **94g:31005**
Plaksa, S. A. *see* **Mel'nichenko, I. P., 94g:31005**

Items with secondary classifications in 31A30

Nicaise, Serge ★ Polygonal interface problems. (English summary) **94g:35067**

31A35 Connections with differential equations

Items with secondary classifications in 31A35

Cialdea, Alberto A multiple-layer potential theory alternative to Agmon's. **94b:35094**
Srivastava, G. S. On generalized axisymmetric potentials of slow growth. (English summary) **94g:30034**

31A99 None of the above, but in this section

Items with secondary classifications in 31A99

Lubinsky, Doron S. (*with* Totik, Vilmos) How to discretize a logarithmic potential? **94k:41010**
Totik, Vilmos *see* **Lubinsky, Doron S., 94k:41010**

31Bxx Higher-dimensional theory

31B05 Harmonic, subharmonic, superharmonic functions

Ahern, Patrick (*with* Flores, Manuel; Rudin, Walter) An invariant volume-mean-value property. (English summary) **94b:31002**
Aikawa, Hiroaki Integrability of superharmonic functions and subharmonic functions. **94b:31003**
Armitage, D. H. (*with* Goldstein, Myron) Tangential harmonic approximation on relatively closed sets. **94i:31005**
Choe, Boo Rim Bôcher's theorem for $\mathscr{M}$-harmonic functions. (English summary) **94h:31004**
Èiderman, V. Ya. On the sum of values of functions in certain classes on a sequence of points. (Russian) **94d:31003**
Flores, Manuel *see* **Ahern, Patrick; et al., 94b:31002**
Fuglede, Bent Some properties of the Riesz charge associated with a ∂-subharmonic function. (English summary) **94m:31003**
Goldstein, Myron *see* **Armitage, D. H., 94i:31005**
Hansen, Wolfhard (*with* Nadirashvili, N. S.) A converse to the mean value theorem for harmonic functions. (English summary) **94m:31004a**
— (*with* Nadirashvili, N. S.) Mean values and harmonic functions. **94m:31004b**
Khabibullin, B. N. A theorem on the least majorant and its applications. I. Entire and meromorphic functions. (Russian. Russian summary) **94f:31003**
Kuliev, È. A. On infinite boundary limits of $\mathscr{M}$-harmonic functions. (Russian) **94b:31004**
Levin, B. Ya. (*with* Logvinenko, V. N.; Sodin, M. L.) Subharmonic functions of finite degree bounded on subsets of the "real hyperplane". **94c:31004**
Logvinenko, V. N. *see* **Levin, B. Ya.; et al., 94c:31004**
Nadirashvili, N. S. *see* **Hansen, Wolfhard, 94m:31004a** *and* **94m:31004b**
Ronkin, L. I. Subharmonic functions of completely regular growth in a closed cone. **94b:31005**
Rudin, Walter *see* **Ahern, Patrick; et al., 94b:31002**
Sattayatham, Pairote On the functions that preserve harmonicity in the Euclidean space. **94k:31004**
Sodin, M. L. *see* **Levin, B. Ya.; et al., 94c:31004**
Vaskevich, V. L. Approximate calculation of the Dirichlet integral of a harmonic function. (Russian. Russian summary) **94a:31002**
Vondraček, Zoran On some extremal elements in the cone $\mathscr{R}^{\text{inf}}$. (English and Serbo-Croatian summaries) **94i:31006**
Watson, Neil A. Superharmonic extensions, mean values and Riesz measures. (English summary) **94j:31002**
Yarmukhamedov, Sh. Harmonic extension of continuous functions defined on a piece of the boundary. (Russian) **94c:31005**

Items with secondary classifications in 31B05

Aleksandrov, A. B. (*with* Kargaev, P. P.) Hardy classes of functions that are harmonic in a half-space. (Russian. Russian summary) **94h:42034**
Bauer, Heinz Behaviour of solutions of elliptic-parabolic differential equations at irregular boundary points. **94d:31001**
Bogashov, F. A. Conformal mapping in a three-dimensional complex space. (Russian) **94f:30033**
Brossard, Jean (*with* Chevalier, Lucien) Majoration harmonique et mouvement brownien. [Harmonic majorization and Brownian motion] **94g:31001**
Bruna, Joaquim A uniqueness theorem for invariantly harmonic functions in the unit ball of C^n. (English summary) **94d:32026**
Chevalier, Lucien *see* **Brossard, Jean, 94g:31001**
Clunie, J. G. (*with* Erëmenko, A. È.; Rossi, John F.) On equilibrium points of logarithmic and Newtonian potentials. (English summary) **94c:31001**
Dwilewicz, Roman (*with* Hill, C. Denson) A characterization of harmonic functions and points of finite and infinite type. (English summary) **94h:32028**
Erëmenko, A. È. *see* **Clunie, J. G.; et al., 94c:31001**
Gu, Dangsheng Two-weight norm inequality and Carleson measure in weighted Hardy spaces. (English summary) **94h:42030**
Hill, C. Denson *see* **Dwilewicz, Roman, 94h:32028**
Horiuchi, Toshio Notes on the mean value property for certain degenerate elliptic operators. **94k:35118**
Imomkulov, S. A. Twice differentiability of subharmonic functions. (Russian. Russian summary) **94c:31002**
Jovanović, Ivan On a representation theorem for spaces A^p_{ν}. (English summary) **94j:30035**
Kargaev, P. P. *see* **Aleksandrov, A. B., 94h:42034**
Lyons, Russell (*with* Zumbrun, Kevin) Homogeneous partial derivatives of radial functions. **94g:26017**
Mateljević, M. (*with* Pavlović, Miroslav) Some inequalities of isoperimetric type concerning analytic and subharmonic functions. (English summary) **94g:30032**
Mizuhara, Takahiro Notes on embedding theorems for local Hardy spaces. (English summary) **94k:46076**
Paramonov, P. V. C^m-approximations by harmonic polynomials on compact sets in $\mathbf{R}^n$. (Russian. Russian summary) **94d:42024**
Pavlović, Miroslav *see* **Mateljević, M., 94g:30032**
Rossi, John F. *see* **Clunie, J. G.; et al., 94c:31001**
Zakharyuta, V. P. Spaces of harmonic functions. **94i:46036**
Zhou, Xian Yin Green function estimates and their applications to the intersections of symmetric random walks. (English summary) **94h:60108**
Zumbrun, Kevin *see* **Lyons, Russell, 94g:26017**

31B10 Integral representations, integral operators, integral equations methods

Bendikov, A. D. (*with* Pavlov, I. V.) Characterization of the Poisson integral in the space $\mathrm{BMO}_2(T^\infty)$. (Russian) (*see* **94i:46001**)
Berg, Christian (*with* Leutwiler, Heinz) On the representability of harmonic functions as Newtonian potentials. (English summary) **94j:31003**
Leutwiler, Heinz *see* **Berg, Christian, 94j:31003**
Nogin, V. A. (*with* Sukhinin, E. V.) Inversion and description of hyperbolic potentials with L_p-densities. (Russian) **94k:31005**
Pavlov, I. V. *see* **Bendikov, A. D., (94i:46001)**
Rathsfeld, A. Finite section method for the double layer potential operator over polyhedral boundaries. (English summary) **94k:31006**
Sukhinin, E. V. *see* **Nogin, V. A., 94k:31005**
Watson, Neil A. Applications of geometric measure theory to the study of Gauss-Weierstrass and Poisson integrals. (English summary) **94k:31007**
Wiegner, Michael Schauder estimates for boundary layer potentials. (English summary) **94h:31005**

Items with secondary classifications in 31B10

Kałamajska, Agnieszka Pointwise multiplicative inequalities and Nirenberg type estimates in weighted Sobolev spaces. (English summary) **94k:46059**
Khabibullin, B. N. The least plurisuperharmonic majorant, and multipliers of entire functions. I. (Russian) **94d:32002a**
— The least plurisuperharmonic majorant, and multipliers of entire functions. II. Algebras of functions of finite λ-type. (Russian. Russian summary) **94d:32002b**
— Erratum: "The least plurisuperharmonic majorant, and multipliers of entire functions. II. Algebras of functions of finite λ-type". (Russian) **94d:32002c**
Yarmukhamedov, Sh. Harmonic extension of continuous functions defined on a piece of the boundary. (Russian) **94c:31005**

31B15 Potentials and capacities, extremal length

Aikawa, Hiroaki Quasiadditivity of capacity and minimal thinness. (English summary) **94d:31004**
Fraenkel, L. E. The capacity of slender toroidal sets in $\mathbf{R}^N$. **94a:31003**
Karp, Lavi Generalized Newton potential and its applications. **94c:31006**
Malý, Jan Hölder type quasicontinuity. (English summary) **94i:31007**
Mizuta, Yoshihiro Spherical means of Beppo Levi functions. **94j:31004**
— Continuity properties of potentials and Beppo-Levi-Deny functions. **94d:31005**
Seifullaev, R. K. Boundary values of multidimensional integrals of potential type. (Russian) **94f:31004**
Shlyk, V. A. Normal domains and removable singularities. (Russian. Russian summary) **94m:31005**
Zorii, N. V. Minimal functions for the capacities of condensers. (Russian. Russian summary) **94f:31005**

Items with secondary classifications in 31B15

Berg, Christian (*with* Leutwiler, Heinz) On the representability of harmonic functions as Newtonian potentials. (English summary) **94j:31003**
Bojarski, Bogdan (*with* Hajłasz, Piotr) Pointwise inequalities for Sobolev functions and some applications. (English summary) **94h:46045**
Brin, Michael (*with* Kifer, Yuri) Harmonic measures on covers of compact surfaces of nonpositive curvature. **94a:58212**
Cegrell, Urban (*with* Kolodziej, Slawomir) An identity between two capacities. **94h:32019**
Essén, Matts On minimal thinness, reduced functions and Green potentials. (English summary) **94c:31003**
Gauthier, Paul M. (*with* Paramonov, P. V.) Approximation by harmonic functions in C^1-norm, and the harmonic C^1-width of compact sets in $\mathbf{R}^n$. (Russian. Russian summary) **94i:41025**
Hajłasz, Piotr *see* **Bojarski, Bogdan, 94h:46045**
Hayman, Walter K. A problem in Fourier series arising from an isoperimetric inequality. **94k:30055**
Hedberg, Lars Inge Approximation by harmonic functions, and stability of the Dirichlet problem. **94k:31001**

Kaĭmanovich, V. A. Dirichlet norms, capacities and generalized isoperimetric inequalities for Markov operators. (English summary) **94i:31012**
Kazumi, Tetsuya (*with* Shigekawa, Ichirō) Measures of finite (r,p)-energy and potentials on a separable metric space. (English summary) **94g:60143**
Kifer, Yuri *see* **Brin, Michael, 94a:58212**
Kołodziej, Sławomir *see* **Cegrell, Urban, 94h:32019**
Kröger, Pawel (*with* Sturm, Karl-Theodor) Hölder continuity of normalized solutions of the Schrödinger equation. **94k:35058**
Laugesen, Richard Extremal problems involving logarithmic and Green capacity. **94g:31004**
Leutwiler, Heinz *see* **Berg, Christian, 94j:31003**
Levin, B. Ya. (*with* Logvinenko, V. N.; Sodin, M. L.) Subharmonic functions of finite degree bounded on subsets of the "real hyperplane". **94c:31004**
Logvinenko, V. N. *see* **Levin, B. Ya.; et al., 94c:31004**
Martio, Olli (*with* Väisälä, Jussi) Bounded turning and passability. **94i:30022**
Paramonov, P. V. *see* **Gauthier, Paul M., 94i:41025**
Shigekawa, Ichirō *see* **Kazumi, Tetsuya, 94g:60143**
Sodin, M. L. *see* **Levin, B. Ya.; et al., 94c:31004**
Sturm, Karl-Theodor *see* **Kröger, Pawel, 94k:35058**
Väisälä, Jussi *see* **Martio, Olli, 94i:30022**

31B20 Boundary value and inverse problems

Baouendi, M. S. (*with* Rothschild, Linda Preiss) A local Hopf lemma and unique continuation for harmonic functions. **94i:31008**
Binder, I. A. A theorem on correction by gradients of harmonic functions. (Russian. Russian summary) **94d:31006**
Chakrabarti, Aloknath (*with* Manna, D. P.) A mixed boundary value problem for Laplace's equation involving a nearly circular disk. (English summary) **94i:31009**
Gardiner, Stephen J. The Dirichlet problem with noncompact boundary. **94e:31001**
Loukianov, O. Y. Application du prolongement analytique au problème inverse du potentiel. (English and French summaries) [Application of analytic continuation to the inverse potential problem] **94i:31010**
Manna, D. P. *see* **Chakrabarti, Aloknath, 94i:31009**
Medková, Dagmar On essential norm of the Neumann operator. (English summary) **94c:31007**
Rothschild, Linda Preiss *see* **Baouendi, M. S., 94i:31008**
Shahgholian, Henrik Correction to: "Unbounded quadrature domains in $\mathbf{R}^n$ $(n \geq 3)$". **94j:31005b**
— Unbounded quadrature domains in $\mathbf{R}^n$ $(n \geq 3)$. (English summary) **94j:31005a**

Items with secondary classifications in 31B20

Loukianov, O. Y. Problème inverse de la théorie du potentiel logarithmique pour les lemniscates. (English summary) [Inverse problem of the theory of the logarithmic potential for lemniscates] **94k:31003**
Martio, Olli (*with* Väisälä, Jussi) Bounded turning and passability. **94i:30022**
Väisälä, Jussi *see* **Martio, Olli, 94i:30022**

31B25 Boundary behavior

Dzagnidze, O. P. Boundary values of the derivatives of the Poisson integral for a ball and the representation of functions of two variables. (Russian. English summary) **94g:31006**
— Angular limits at the poles of a sphere of the derivatives of the Poisson integral. (Russian. English summary) **94g:31007**
Gardiner, Stephen J. Uniqueness and extension theorems for subharmonic functions. **94m:31006**
Kheyfits, Alexander I. The pointwise Fatou theorem for generalized harmonic functions. (Russian) **94k:31008**
Salazar, Jorge A. Dirichlet's problem on Green lines and some convergence theorems for Denjoy's domains. **94c:31008**
Zhao, Shiying Boundary behavior of subharmonic functions in nontangential accessible domains. (English summary) **94k:31009**

Items with secondary classifications in 31B25

Aikawa, Hiroaki Quasiadditivity of capacity and minimal thinness. (English summary) **94d:31004**
Baouendi, M. S. (*with* Rothschild, Linda Preiss) A local Hopf lemma and unique continuation for harmonic functions. **94i:31008**
Berman, Robert D. (*with* Singman, David) Intermittent oscillation and tangential growth of functions with respect to Nagel-Stein regions on a half-space. **94i:31002**
Hulanicki, Andrzej Maximal functions at infinity for Poisson integrals on NA. **94h:22003**
Mizuta, Yoshihiro Spherical means of Beppo Levi functions. **94j:31004**
— Continuity properties of potentials and Beppo-Levi-Deny functions. **94d:31005**
Rothschild, Linda Preiss *see* **Baouendi, M. S., 94i:31008**
Singman, David *see* **Berman, Robert D., 94i:31002**

31B30 Biharmonic and polyharmonic equations and functions

Items with secondary classifications in 31B30

Casola, Rita On explicit upper bounds for second derivatives by means of the data in the biharmonic problem. (Italian. English summary) **94f:35041**
Noussair, Ezzat S. (*with* Swanson, Charles A.; Yang, Jian Fu) Transcritical biharmonic equations in $\mathbf{R}^N$. **94c:35068**
Pipher, Jill (*with* Verchota, Gregory) The Dirichlet problem in L^p for the biharmonic equation on Lipschitz domains. **94g:35069**
— (*with* Verchota, Gregory) A maximum principle for biharmonic functions in Lipschitz and C^1 domains. **94j:35030**
Radzhabov, È. L. About one boundary value problem for polyharmonic operators. **94m:35095**
Swanson, Charles A. *see* **Noussair, Ezzat S.; et al., 94c:35068**
Verchota, Gregory *see* **Pipher, Jill, 94g:35069** *and* **94j:35030**
van der Vorst, R. C. A. M. Best constant for the embedding of the space $H^2 \cap H_0^1(\Omega)$ into $L^{2N/(N-4)}(\Omega)$. **94b:46053**
Yang, Jian Fu *see* **Noussair, Ezzat S.; et al., 94c:35068**
Yu, Lao Sen Asymptotic behaviour of finite energy solutions of polyharmonic equations. (English summary) **94c:35039**

31B35 Connections with differential equations

Dzhvarsheishvili, A. G. Some angular boundary properties of harmonic functions of several variables. (Russian)
Selmi, Mohamed Comparaison des semi-groupes et des résolvantes d'ordre α associés à des opérateurs différentiels de type divergence. (English summary) [Comparison of semigroups and resolvents of order α associated with differential operators of divergence type] **94m:31007**
Wolff, Thomas H. Some constructions with solutions of variable coefficient elliptic equations. (English summary) **94f:31006**

Items with secondary classifications in 31B35

Horgan, Cornelius O. (*with* Payne, L. E.) Phragmén-Lindelöf type results for harmonic functions with nonlinear boundary conditions. (English summary) **94d:35008**
Marín Malavé, Santiago About a Fatou theorem for the p-Laplacian and related estimates for the Hausdorff dimension of the support of certain L-harmonic measures. (English summary) (*see* **94e:00020**)
Payne, L. E. *see* **Horgan, Cornelius O., 94d:35008**
Utkin, E. K. On the smoothness of the parabolic potential of a simple layer. (Russian. Russian summary) **94j:35062**

31B99 None of the above, but in this section

Kim, Hong Oh (*with* Kwon, Ern Gun) $\mathscr{M}$-subspaces of X_λ. **94c:31009**
Kwon, Ern Gun *see* **Kim, Hong Oh, 94c:31009**

Items with secondary classifications in 31B99

Franciosi, Michelangelo Good λ-inequalities, rearrangements, and the John-Nirenberg theorem. (English summary) **94g:42032**
Garofalo, Nicola (*with* Segàla, Fausto) Another step toward the solution of the Pompeiu problem in the plane. **94j:30039**
Gauthier, Paul M. (*with* Zwick, D.) Best uniform approximation by solutions of elliptic differential equations. **94e:41041**
Martensen, Erich Dipole distributions in equilibrium. (English summary) **94b:78012**
Segàla, Fausto *see* **Garofalo, Nicola, 94j:30039**
Stoll, Manfred Tangential boundary limits of invariant potentials in the unit ball of $\mathbf{C}^n$. **94h:32020**
Zwick, D. *see* **Gauthier, Paul M., 94e:41041**

31Cxx Other generalizations

31C05 Harmonic, subharmonic, superharmonic functions

Soardi, Paolo M. Rough isometries and Dirichlet finite harmonic functions on graphs. **94a:31004**

Items with secondary classifications in 31C05

Ahern, Patrick (*with* Flores, Manuel; Rudin, Walter) An invariant volume-mean-value property. (English summary) **94b:31002**
Cartwright, Donald I. (*with* Woess, Wolfgang) Infinite graphs with nonconstant Dirichlet finite harmonic functions. **94a:31005**
Conze, J.-P. (*with* Raugi, Albert) Analyse multi-échelle et frontières de marches aléatoires. [Multiscale analysis and boundaries of random walks] **94f:60012**
Flores, Manuel *see* **Ahern, Patrick; et al., 94b:31002**
Kaĭmanovich, V. A. Poisson boundaries of random walks on discrete solvable groups. **94m:60014**
Northshield, S. Circle boundaries of planar graphs. (English summary) **94i:60089**
Raugi, Albert *see* **Conze, J.-P., 94f:60012**
Rudin, Walter *see* **Ahern, Patrick; et al., 94b:31002**
Woess, Wolfgang *see* **Cartwright, Donald I., 94a:31005**

31C10 Pluriharmonic and plurisubharmonic functions [see also 32F05]

Nagai, H. Extremal holomorphic diffusion processes. (English summary) **94f:31007**
Stoll, Manfred Composition of potentials with inner functions. (English summary) **94b:31006**

Items with secondary classifications in 31C10

Baran, Mirosław Multivariate versions of Bernstein inequality. (English summary) **94a:32025**
Levenberg, Norman (*with* Okada, Masami) On the Dirichlet problem for the complex Monge-Ampère operator. **94i:32020**
Okada, Masami *see* **Levenberg, Norman, 94i:32020**
Sekerin, A. B. Construction of entire and meromorphic functions of several variables with given growth, and some applications. (Russian) **94m:32003**
Sigurdsson, Ragnar Some recent results on growth properties of entire functions in $\mathbf{C}^n$. **94f:32007**

31C12 Potential theory on Riemannian manifolds [see also 53C20; for Hodge theory, see 58A14]

Bagby, Thomas (*with* Cornea, Aurel; Gauthier, Paul M.) Harmonic approximation on arcs. (English summary) **94j:31006**
Cornea, Aurel *see* **Bagby, Thomas; et al., 94j:31006**
Gauthier, Paul M. *see* **Bagby, Thomas; et al., 94j:31006**
Kaimanovich, V. A. Discretization of bounded harmonic functions on Riemannian manifolds and entropy. **94b:31007**
Losev, A. G. Some Liouville theorems on Riemannian manifolds of a special type. (Russian) **94c:31010**
Nakai, Mitsuru Riemannian manifolds with connected Royden harmonic boundaries. **94b:31008**

Items with secondary classifications in 31C12

Holopainen, Ilkka Positive solutions of quasilinear elliptic equations on Riemannian manifolds. **94d:58161**
Kasue, Atsushi Harmonic functions of polynomial growth on complete manifolds. **94e:53031**
Lu, Qi Keng The Poisson formula for harmonic $(1,0)$-forms in a ball of $\mathbf{C}^n$. **94k:32023**
Strzelecki, Paweł Regularity of p-harmonic functions on a Riemann surface. (English summary) **94g:35038**

31C15 Potentials and capacities

Brzezina, Miroslav Capacitary interpretation of the Fulks measure. (English summary) **94k:31010**
Dubinin, V. N. Capacities and geometric transformations of subsets in n-space. (English summary) **94f:31008**

Items with secondary classifications in 31C15

Bauer, Jürgen Sur les draps d'Ornstein-Uhlenbeck et les capacités associées. (English and French summaries) [On Ornstein-Uhlenbeck sheets and associated capacities] **94f:60097**
Berman, Robert D. (*with* Singman, David) Intermittent oscillation and tangential growth of functions with respect to Nagel-Stein regions on a half-space. **94i:31002**
Chavel, Isaac (*with* Feldman, Edgar A.) Isoperimetric constants and large time heat diffusion in Riemannian manifolds. (*see* **94a:00012**)
Feldman, Edgar A. *see* **Chavel, Isaac, (94a:00012)**
Feyel, Denis (*with* de La Pradelle, Arnaud) Harmonic analysis in infinite dimension. (English summary) **94m:28022**
Fukushima, Masatoshi (r,p)-capacities and Hunt processes in infinite dimensions. **94c:60123**
Kazumi, Tetsuya (*with* Shigekawa, Ichirō) Measures of finite (r,p)-energy and potentials on a separable metric space. (English summary) **94g:60143**
Kilpeläinen, Tero (*with* Malý, Jan) Degenerate elliptic equations with measure data and nonlinear potentials. **94c:35091**
Koosis, Paul ★ The logarithmic integral. II. **94i:30027**
de La Pradelle, Arnaud *see* **Feyel, Denis, 94m:28022**
Malý, Jan *see* **Kilpeläinen, Tero, 94c:35091**
Sheu, Yuan-Chung A Hausdorff measure classification of G-polar sets for the superdiffusions. (English summary) **94g:60072**
Shigekawa, Ichirō (*with* Taniguchi, Setsuo) Dirichlet forms on separable metric spaces. **94g:31008**
— *see also* **Kazumi, Tetsuya, 94g:60143**
Singman, David *see* **Berman, Robert D., 94i:31002**
Taniguchi, Setsuo *see* **Shigekawa, Ichirō, 94g:31008**

31C20 Discrete potential theory and numerical methods

Cartwright, Donald I. (*with* Woess, Wolfgang) Infinite graphs with nonconstant Dirichlet finite harmonic functions. **94a:31005**
Michon, Gérard Matrices de Stieltjes et potentiels finis. (English and French summaries) [Stieltjes matrices and finite potentials] **94i:31011**
Picardello, Massimo A. (*with* Taibleson, Mitchell H.; Woess, Wolfgang) Harmonic measure of the planar Cantor set from the viewpoint of graph theory. (English summary) **94f:31009**
Taibleson, Mitchell H. *see* **Picardello, Massimo A.; et al., 94f:31009**
Woess, Wolfgang *see* **Cartwright, Donald I., 94a:31005** *and* **Picardello, Massimo A.; et al., 94f:31009**

Items with secondary classifications in 31C20

Benjamini, Itai (*with* Peres, Yuval) Random walks on a tree and capacity in the interval. (English and French summaries) **94f:60089**
Kaimanovich, V. A. Measure-theoretic boundaries of Markov chains, 0-2 laws and entropy. **94h:60099**
Peres, Yuval *see* **Benjamini, Itai, 94f:60089**

31C25 Dirichlet spaces

Albeverio, Sergio (*with* Röckner, Michael) On Dirichlet forms on topological vector spaces: existence and maximality. (English summary) **94f:31010**
— (*with* Kusuoka, Shigeo) Maximality of infinite-dimensional Dirichlet forms and Høegh-Krohn's model of quantum fields. (English summary) **94c:31011**
— (*with* Röckner, Michael; Zhang, Tu Sheng) Markov uniqueness and its applications to martingale problems, stochastic differential equations and stochastic quantization. (English summary) **94c:31012**
Fan, Ru Zong Beurling-Deny formulae on Banach spaces. (English summary) **94m:31008**
Jacob, Niels Anisotropic Sobolev spaces in probability theory. **94j:31007**
— An example of a nonlocal, nonsymmetric Dirichlet form. (English summary) **94k:31011**
Kaimanovich, V. A. Dirichlet norms, capacities and generalized isoperimetric inequalities for Markov operators. (English summary) **94i:31012**
Kusuoka, Shigeo *see* **Albeverio, Sergio, 94c:31011**
Ma, Zhi Ming Dirichlet forms and their applications to mathematics and physics. (Chinese. English and Chinese summaries) **94m:31009**
Metz, Volker How many diffusions exist on the Vicsek snowflake? (English summary) **94m:31010**
Nakane, Kazuaki On the Dirichlet form on a Lusinian state space. **94i:31013**
Ōkura, Hiroyuki On the invariant sets and the irreducibility of symmetric Markov processes. **94k:31012**
Röckner, Michael Dirichlet forms on infinite-dimensional state space and applications. **94c:31013**
— *see also* **Albeverio, Sergio; et al., 94c:31012** *and* **94f:31010**
Schmuland, Byron Dirichlet forms with polynomial domain. (English summary) **94f:31011**
Shigekawa, Ichirō (*with* Taniguchi, Setsuo) Dirichlet forms on separable metric spaces. **94g:31008**
Song, Shi Qi Admissible vectors and their associated Dirichlet forms. (English summary) **94j:31008**
Stollmann, Peter Closed ideals in Dirichlet spaces. (English summary) **94i:31014**
Taniguchi, Setsuo *see* **Shigekawa, Ichirō, 94g:31008**
Zhang, Tu Sheng *see* **Albeverio, Sergio; et al., 94c:31012**

Items with secondary classifications in 31C25

Albeverio, Sergio (*with* Ma, Zhi Ming) Nowhere Radon smooth measures, perturbations of Dirichlet forms and singular quadratic forms. (English summary) (*see* **94c:93005**)
— (*with* Röckner, Michael; Zhang, Tu Sheng) Girsanov transform for symmetric diffusions with infinite-dimensional state space. (English summary) **94i:60087**
— (*with* Léandre, Rémi; Röckner, Michael) Construction of a rotational invariant diffusion on the free loop space. (English and French summaries) **94g:60146**
— (*with* Ma, Zhi Ming; Röckner, Michael) Local property of Dirichlet forms and diffusions on general state spaces. **94i:60092**
— (*with* Song, Shi Qi) Closability and resolvent of Dirichlet forms perturbed by jumps. (English summary) **94m:60154**
Bakry, Dominique Inégalités de Sobolev faibles: un critère Γ_2. (French summary) [Weak Sobolev inequalities: a Γ_2 criterion] **94c:60125**
Bendikov, A. D. Uniformly elliptic operators on an infinite-dimensional torus. (English and French summaries) **94b:35290**
Chen, Zhen Qing Pseudo Jordan domains and reflecting Brownian motions. (English summary) **94a:60112**
Coquio, Agnès Forme de Dirichlet sur l'espace canonique de Poisson et applications aux équations différentielles stochastiques. (English and French summaries) [Dirichlet form on the canonical Poisson space and applications to stochastic differential equations] **94h:60079**
Fan, Ru Zong Some diffusion processes on a half-space and Dirichlet forms related to them. (Chinese. Chinese summary) **94d:60124**
Fukushima, Masatoshi Dirichlet forms, diffusion processes and spectral dimensions for nested fractals. **94d:60129**
Jacob, Niels Further pseudodifferential operators generating Feller semigroups and Dirichlet forms. (English summary) **94i:60085**
Kondrat'ev, Yu. G. (*with* Tsikalenko, T. V.) Infinite-dimensional Dirichlet operators. I. Essential selfadjointness and associated elliptic equations. (English summary) **94j:47038**
Kumagai, Takashi Regularity, closedness and spectral dimensions of the Dirichlet forms on P.C.F. self-similar sets. **94i:28006**
Léandre, Rémi *see* **Albeverio, Sergio; et al., 94g:60146**
Lyons, T. J. (*with* Zhang, Tu Sheng) Note on convergence of Dirichlet processes. **94d:60120**
Ma, Zhi Ming (*with* Röckner, Michael) ★ Introduction to the theory of (nonsymmetric) Dirichlet forms. **94d:60119**
— *see also* **Albeverio, Sergio; et al., 94i:60092** *and* **(94c:93005)**
Ōshima, Yōichi On conservativeness and recurrence criteria for Markov processes. (English summary) **94k:60118**
Röckner, Michael *see* **Ma, Zhi Ming, 94d:60119**; **Albeverio, Sergio; et al., 94g:60146**; **94i:60087** *and* **94i:60092**
Schmuland, Byron Nonsymmetric Ornstein-Uhlenbeck processes in Banach space via Dirichlet forms. (English summary) **94m:60160**
Song, Shi Qi An infinite-dimensional analogue of the Albeverio-Röckner's theorem on Fukushima's conjecture. (English summary) **94m:60114**
— *see also* **Albeverio, Sergio, 94m:60154**
Tsikalenko, T. V. *see* **Kondrat'ev, Yu. G., 94j:47038**
Yang, Qing Ji Dirichlet forms and reflecting diffusion processes. (Chinese. Chinese summary) **94a:60116**
Zhang, Tu Sheng *see* **Lyons, T. J., 94d:60120** *and* **Albeverio, Sergio; et al., 94i:60087**

31C35 Martin boundary theory [see also 60J50]

Babillot, Martine Potential at infinity on symmetric spaces and Martin boundary. **94f:31012**
Taylor, John Christopher Compactifications determined by a polyhedral cone decomposition of $\mathbf{R}^n$. (English summary) **94f:31013**

Items with secondary classifications in 31C35

Cranston, Michael C. (*with* Salisbury, Thomas S.) Martin boundaries of sectorial domains. (English summary) **94k:31002**
Hansen, Wolfhard (*with* Nadirashvili, N. S.) A converse to the mean value theorem for harmonic functions. (English summary) **94m:31004a**
— (*with* Nadirashvili, N. S.) Mean values and harmonic functions. **94m:31004b**
Ioffe, Dimitri (*with* Pinsky, Ross G.) Positive harmonic functions vanishing on the boundary for the Laplacian in unbounded horn-shaped domains. (English summary) **94h:60114**
Kuznetsov, S. E. More on existence and uniqueness of decomposition of excessive functions and measures into extremes. (English summary) **94i:60088**
Nadirashvili, N. S. *see* **Hansen, Wolfhard, 94m:31004a** *and* **94m:31004b**

Northshield, S. Circle boundaries of planar graphs. (English summary) **94i:60089**
Pinsky, Ross G. *see* **Ioffe, Dimitri, 94h:60114**
Salazar, Jorge A. Dirichlet's problem on Green lines and some convergence theorems for Denjoy's domains. **94c:31008**
Salisbury, Thomas S. *see* **Cranston, Michael C., 94k:31002**

31C40 Fine potential theory

Items with secondary classifications in 31C40

Erëmenko, A. È. (*with* Fuglede, Bent; Sodin, M. L.) On the Riesz charge of the lower envelope of δ-subharmonic functions. (English summary) **94i:31001**
Fuglede, Bent Some properties of the Riesz charge associated with a ∂-subharmonic function. (English summary) **94m:31003**
— *see also* **Erëmenko, A. È.; et al., 94i:31001**
Gardiner, Stephen J. Uniqueness and extension theorems for subharmonic functions. **94m:31006**
Sodin, M. L. *see* **Erëmenko, A. È.; et al., 94i:31001**

31C45 Other generalizations (nonlinear potential theory, etc.)

Brzezina, Miroslav On a class of translation invariant balayage spaces. **94b:31009**
— Tusk type conditions and thinness for the parabolic operator of order α. **94e:31002**
Heinonen, Juha (*with* Kilpeläinen, Tero; Martio, Olli) ★ Nonlinear potential theory of degenerate elliptic equations. **94e:31003**
Hoh, Walter (*with* Jacob, Niels) On some translation invariant balayage spaces. **94f:31014**
Jacob, Niels *see* **Hoh, Walter, 94f:31014**
Kilpeläinen, Tero *see* **Heinonen, Juha; et al., 94e:31003**
Martio, Olli *see* **Heinonen, Juha; et al., 94e:31003**
Murakami, Atsushi (*with* Yamasaki, Maretsugu) Nonlinear potentials on an infinite network. (English summary) **94d:31007**
Nogin, V. A. *see* **Zavolzhenskiĭ, M. M.**
Soardi, Paolo M. Morphisms and currents in infinite nonlinear resistive networks. (English summary) **94j:31009**
Yamasaki, Maretsugu *see* **Murakami, Atsushi, 94d:31007**
Yanushauskas, A. I. On mappings of layers connected with harmonic functions. (Russian. Lithuanian summary) **94i:31015**
Zavolzhenskiĭ, M. M. (*with* Nogin, V. A.) An approximate approach to the inversion of generalized Riesz potentials. (Russian)

Items with secondary classifications in 31C45

Delabaere, É. (*with* Dillinger, H.; Pham, F.) Résurgence de Voros et périodes des courbes hyperelliptiques. (English and French summaries) [Voros resurgence and periods of hyperelliptic curves] **94i:34115**
Dillinger, H. *see* **Delabaere, É.; et al., 94i:34115**
Holopainen, Ilkka (*with* Rickman, Seppo) A Picard type theorem for quasiregular mappings of $\mathbf{R}^n$ into n-manifolds with many ends. **94g:30021**
Pham, F. *see* **Delabaere, É.; et al., 94i:34115**
Rickman, Seppo *see* **Holopainen, Ilkka, 94g:30021**

31C99 None of the above, but in this section

Andreu, F. (*with* Mazón, J. M.) A nonlinear version of Hunt-Lion's theorem from the point of view of T-accretivity. (English summary) **94j:31010**
Mazón, J. M. *see* **Andreu, F., 94j:31010**

Items with secondary classifications in 31C99

Piau, Didier Arbres subordonnés et potentiel. (English and French summaries) [Potential and subordination of a tree] **94j:60135**

31D05 Axiomatic potential theory

Bertin, E. M. J. Axiomatic convex potential theory. **94e:31004**
Boboc, N. (*with* Bucur, Gh.) Pseudodilations in H-cones. **94a:31006**
— (*with* Bucur, Gh.) Natural compression operators and subordinations in excessive structures. **94c:31014**
Brzezina, Miroslav Kernels and Choquet capacities. (English summary) **94b:31010**
Bucur, Gh. *see* **Boboc, N., 94a:31006** *and* **94c:31014**
Chacrone, Seddik Fonctions finement harmoniques et l'axiome de domination. (English summary) [Finely harmonic functions and the domination axiom] **94m:31011**
Eriksson-Bique, Sirkka-Liisa Real-valued duals of H-cones. (English summary) **94h:31006**
— Duals of H-cones. (English summary) **94j:31011**
— Characterizations of balayages. (English summary) **94m:31012**
van Gool, Frans Semilinear perturbation of linear harmonic spaces. (English summary) **94a:31007**
Hansen, Wolfhard (*with* Netuka, Ivan) Limits of balayage measures. (English summary) **94m:31013**
Hmissi, Mohamed Sur la représentation par les lois de sortie. [On representation by exit laws] **94k:31013**
Laine, Ilpo Harmonic morphisms and nonlinear potential theory. **94f:31015**
Morinaka, Hisashi On the representation of potentials by a Green function and the proportionality axiom on P-harmonic spaces. **94i:31016**
Netuka, Ivan *see* **Hansen, Wolfhard, 94m:31013**
Popa, Eugen Products of absolutely continuous semigroups. (English and French summaries) **94h:31007**
Pyrih, Pavel Finely locally injective finely harmonic morphisms. (English summary) **94k:31014**
Schirmeier, Ursula Removability of polar sets for harmonic functions. (English summary) **94m:31014**

Items with secondary classifications in 31D05

Bauer, Heinz Behaviour of solutions of elliptic-parabolic differential equations at irregular boundary points. **94d:31001**
Burdzy, Krzysztof (*with* Marshall, Donald E.) Nonpolar points for reflected Brownian motion. (English and French summaries) **94g:60152**
Fitzsimmons, P. J. (*with* Getoor, R. K.) Riesz decompositions and subtractivity for excessive measures. (English summary) **94k:60117**
Fuglede, Bent Some properties of the Riesz charge associated with a ∂-subharmonic function. (English summary) **94m:31003**
Gardiner, Stephen J. (*with* Goldstein, Myron; Gowrisankaran, Kohur) Global approximation in harmonic spaces. (English summary) **94k:41030**
Getoor, R. K. *see* **Fitzsimmons, P. J., 94k:60117**
Goldstein, Myron *see* **Gardiner, Stephen J.; et al., 94k:41030**
van Gool, Frans Lower semicontinuous functions with values in a continuous lattice. (English summary) **94j:54007**
Gowrisankaran, Kohur *see* **Gardiner, Stephen J.; et al., 94k:41030**
Hansen, Wolfhard (*with* Nadirashvili, N. S.) A converse to the mean value theorem for harmonic functions. (English summary) **94m:31004a**
— (*with* Nadirashvili, N. S.) Mean values and harmonic functions. **94m:31004b**
Marshall, Donald E. *see* **Burdzy, Krzysztof, 94g:60152**
Nadirashvili, N. S. *see* **Hansen, Wolfhard, 94m:31004a** *and* **94m:31004b**

32–XX Several complex variables and analytic spaces {For infinite-dimensional holomorphy, see also 46G20, 58B12.}

32–02 Research exposition (monographs, survey articles)

Bavrin, I. I. ★ Операторный метод в комплексном анализе. (Russian. Russian summary) [The operator method in complex analysis] **94f:32001**
Krantz, Steven G. ★ Geometric analysis and function spaces. **94g:32001**

Items listed otherwise than by author

CBMS Regional Conference Series in Mathematics *see* **Krantz, Steven G., 94g:32001**

Items with secondary classifications in 32–02

Almgren, Frederick J., Jr. What can geometric measure theory do for several complex variables? **94f:32022**
Bedford, Eric Survey of pluri-potential theory. **94b:32014**
Berenstein, Carlos A. (*with* Gay, Roger; Vidras, Alekos; Yger, Alain) ★ Residue currents and Bezout identities. (English summary) **94m:32006**
D'Angelo, John P. ★ Several complex variables and the geometry of real hypersurfaces. **94i:32022**
Forstnerič, Franc Proper holomorphic mappings: a survey. **94a:32042**
(Gavosto, Estela A.) *see* **Krantz, Steven G., 94a:35002**
Gay, Roger *see* **Berenstein, Carlos A.; et al., 94m:32006**
Greene, Brian R. (*with* Plesser, M. Ronen) An introduction to mirror manifolds. (English summary) (*see* **94b:32001**)
Jarnicki, Marek (*with* Pflug, Peter) ★ Invariant distances and metrics in complex analysis. **94k:32039**
Krantz, Steven G. ★ Partial differential equations and complex analysis. **94a:35002**
(Peloso, Marco M.) *see* **Krantz, Steven G., 94a:35002**
Pflug, Peter *see* **Jarnicki, Marek, 94k:32039**
Plesser, M. Ronen *see* **Greene, Brian R., (94b:32001)**
Vidras, Alekos *see* **Berenstein, Carlos A.; et al., 94m:32006**
Wu, Hung Hsi Old and new invariant metrics on complex manifolds. **94a:32038**
Yger, Alain *see* **Berenstein, Carlos A.; et al., 94m:32006**

32–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 32–03

Chen, Zhi Hua Complex geometry in China. **94a:32015**
Stoll, Wilhelm Shiing Shen Chern's influence on value distribution: dedicated to Shiing Shen Chern. (*see* **94c:53004**)
— High points in the history of value distribution theory of several complex variables. **94h:32044**

32–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 32–04

Kajiwara, Joji (*with* Li, Lin; Tsuji, Miki) Real zeros of holomorphic functions with parameters. II. Complex numerical integration using FORTRAN77. **94k:32001**
Li, Lin *see* **Kajiwara, Joji; et al., 94k:32001**
Tari, Farid Recognition of $\mathscr{K}$-singularities of functions. (English summary) **94a:32053**
Tsuji, Miki *see* **Kajiwara, Joji; et al., 94k:32001**

32–06 Proceedings, conferences, collections, etc.

(Kobayashi, Shoshichi) *see* **Symposium: Holomorphic Mappings, Diophantine Geometry and Related Topics, 94f:32004**
(Meril, Alex) *see* **Multivariate complex analysis: recent developments, 94b:32002**
(Yau, Shing-Tung) *see* **Essays on mirror manifolds, 94b:32001**

Items listed otherwise than by author

Analyse complexe multivariable: récents développements ★ Analyse complexe multivariable: récents développements. (French) [Multivariate complex analysis: recent developments] **94b:32002**
Birthday:
Kobayashi, Shoshichi ★ International Symposium "Holomorphic Mappings, Diophantine Geometry and Related Topics". **94f:32004**
Colloquium:
Complex Analysis and Geometry ★ Colloque d'Analyse Complexe et Géométrie. [Colloquium on Complex Analysis and Geometry] **94f:32002**
Multivariate Complex Analysis: Recent Developments ★ Analyse complexe multivariable: récents développements. (French) [Multivariate complex analysis: recent developments] **94b:32002**
Complex analytic geometry and related research—mathematical physics and complex geometry ★ Fukuso kaiseki kikagaku to sono shūhen no kenkyū—sūri butsuri to fukuso kika. [Complex analytic geometry and related research—mathematical physics and complex geometry] **94f:32003**
Essays on mirror manifolds ★ Essays on mirror manifolds. **94b:32001**
Guadeloupe ★ Analyse complexe multivariable: récents développements. (French) [Multivariate complex analysis: recent developments] **94b:32002**
Kyoto ★ Fukuso kaiseki kikagaku to sono shūhen no kenkyū—sūri butsuri to fukuso kika. [Complex analytic geometry and related research—mathematical physics and complex geometry] **94f:32003**
— ★ International Symposium "Holomorphic Mappings, Diophantine Geometry and Related Topics". **94f:32004**
Marseille ★ Colloque d'Analyse Complexe et Géométrie. [Colloquium on Complex Analysis and Geometry] **94f:32002**
Multivariate complex analysis: recent developments ★ Analyse complexe multivariable: récents développements. (French) [Multivariate complex analysis: recent developments] **94b:32002**
Symposium:
Complex Analytic Geometry and Related Research—Mathematical Physics and Complex Geometry ★ Fukuso kaiseki kikagaku to sono shūhen no kenkyū—sūri butsuri to fukuso kika. [Complex analytic geometry and related research—mathematical physics and complex geometry] **94f:32003**
Holomorphic Mappings, Diophantine Geometry and Related Topics ★ International Symposium "Holomorphic Mappings, Diophantine Geometry and Related Topics". **94f:32004**

Items with secondary classifications in 32–06

(Balk, M. B.) *see* **Studies in polyanalytic functions and their generalizations, 94c:00021**
(Coen, Salvatore) *see* **Seminar: Geometry, 94j:00015**
(Eastwood, Michael G.) *see* **Penrose transform and analytic cohomology in representation theory, 94e:22002**
(Guenot, Jacques) *see* **Seminar: Complex Analysis and Geometry, 94f:00033**
(Stoll, Wilhelm) *see* **Proceedings: Symposium on Value Distribution Theory in Several Complex Variables, 94d:32038**
(Struppa, Daniele C.) *see* **Seminar: Complex Analysis and Geometry, 94f:00033**
(Tournier, E.) *see* **Computer algebra and differential equations, 94m:00024**
(Wolf, Joseph A.) *see* **Penrose transform and analytic cohomology in representation theory, 94e:22002**
(Zieran, Roger) *see* **Penrose transform and analytic cohomology in representation theory, 94e:22002**

Items listed otherwise than by author

Algebraic analysis and number theory ★ Algebraic analysis and number theory. **94f:00013**
Analytic varieties and singularities ★ Kaiseki tayōtai to tokuiten. [Analytic varieties and singularities] **94f:32070**
Arcavacata ★ Seminars in Complex Analysis and Geometry. 1989/90. **94f:00033**
Computer algebra and differential equations ★ Computer algebra and differential equations. **94m:00024**
Conference:
Computer Algebra and Differential Equations ★ Computer algebra and differential equations. **94m:00024**
The Penrose Transform and Analytic Cohomology in Representation Theory ★ The Penrose transform and analytic cohomology in representation theory. **94e:22002**
Contemporary Mathematics ★ The Penrose transform and analytic cohomology in representation theory. **94e:22002**
Kyoto ★ Algebraic analysis and number theory. **94f:00013**
Notre Dame, IN ★ Proceedings Symposium on Value Distribution Theory in Several Complex Variables. **94d:32038**
Penrose transform and analytic cohomology in representation theory ★ The Penrose transform and analytic cohomology in representation theory. **94e:22002**
Proceedings:
Symposium on Value Distribution Theory in Several Complex Variables ★ Proceedings Symposium on Value Distribution Theory in Several Complex Variables. **94d:32038**
Seminar:
Complex Analysis and Geometry ★ Seminars in Complex Analysis and Geometry. 1989/90. **94f:00033**
Geometry ★ Seminari di Geometria. 1991–1993. [Geometry Seminars. 1991–1993] **94j:00015**
South Hadley, MA ★ The Penrose transform and analytic cohomology in representation theory. **94e:22002**
Studies in polyanalytic functions and their generalizations ★ Исследования по полианалитическим функциям и их обобщениям. (Russian) [Studies in polyanalytic functions and their generalizations] **94c:00021**
Symposium:
Algebraic Analysis and Number Theory ★ Algebraic analysis and number theory. **94f:00013**
Analytic Varieties and Singularities ★ Kaiseki tayōtai to tokuiten. [Analytic varieties and singularities] **94f:32070**
Value Distribution Theory in Several Complex Variables ★ Proceedings Symposium on Value Distribution Theory in Several Complex Variables. **94d:32038**

32Axx Holomorphic functions of several complex variables

32A05 Power series, series of functions

Charzyński, Zygmunt (*with* Skibiński, Przemysław) Pseudo-orthogonality of powers of the coordinates of a holomorphic mapping in two variables with the constant Jacobian. (English summary) **94h:32001**
Daoud, Suzanne Certain operators in the space of entire functions represented by Dirichlet series of several complex variables. (English summary) **94e:32001**
Das, A. K. (*with* Mazumdar, N. C.) On the order and type of integral functions of several complex variables. **94j:32001**
Kishka, Z. M. G. Power set of simple set of polynomials of two complex variables. (English summary) **94m:32001**
Lutsishin, M. R. *see* **Skaskiv, O. B., 94e:32002**
Mazumdar, N. C. *see* **Das, A. K., 94j:32001**
Sekerin, A. B. On the representation of analytic functions of several variables by exponential series. (Russian. Russian summary) **94b:32003**
Sharma, Poonam On the order of an entire function of several complex variables represented by multiple Dirichlet series. **94f:32005**
Skaskiv, O. B. (*with* Lutsishin, M. R.) Minimum modulus of a multiple Dirichlet series. (Ukrainian. Russian and Ukrainian summaries) **94e:32002**
Skibiński, Przemysław *see* **Charzyński, Zygmunt, 94h:32001**

Items with secondary classifications in 32A05

Berenstein, Carlos A. (*with* Struppa, Daniele C.) Interpolation and Dirichlet series: a new approach. **94f:30003**
Grechanyuk, M. I. The growth cone of entire double Dirichlet series. (Russian) **94h:32006**
Kolaski, Clinton J. Remarks on functions with positive real part on the ball in $\mathbf{C}^n$. **94b:32002**
Kwon, Ern Gun On homogeneous expansions of mixed norm space functions in the ball. (English summary) **94d:32009**
Struppa, Daniele C. *see* **Berenstein, Carlos A., 94f:30003**

32A07 Special domains (Reinhardt, Hartogs, tube domains, etc.)

Sergeev, A. G. On matrix Reinhardt and circled domains. **94a:32001**
Sun, Li Min A note on Hermitian maps. (Chinese. English and Chinese summaries) **94d:32001**

Items with secondary classifications in 32A07

Bavrin, I. I. ★ Операторный метод в комплексном анализе. (Russian. Russian summary) [The operator method in complex analysis] **94f:32001**
Carmichael, R. D. (*with* Pathak, R. S.; Pilipović, Stevan) Ultradistributional boundary values of holomorphic functions. (English summary) **94f:46053**
Charzyński, Zygmunt (*with* Skibiński, Przemysław) Pseudo-orthogonality of powers of the coordinates of a holomorphic mapping in two variables with the constant Jacobian. (English summary) **94h:32001**
Dimou, G. E. Complete classification of convex cones and skeletons of dimensions seven up to thirteen. **94d:32046d**
— (*with* Tsagas, Gr. F.) Convex cones and skeletons of dimension fourteen. **94d:32046a**
— Classification of homogeneous convex cones and skeletons of dimension 11. **94d:32046b**
— Some properties of nonsymmetric homogeneous domain dimension 7 over C. **94d:32046c**
Forstnerič, Franc Proper holomorphic mappings: a survey. **94a:32042**
Gindikin, S. G. ★ Tube domains and the Cauchy problem. (English summary) **94d:35028**
Hirachi, Kengo The second variation of the Bergman kernel of ellipsoids. **94k:32036**
Kang, Hyeonbae Automorphism groups on certain Reinhardt domains. **94i:32051**
Karapetyan, A. O. Integral representations of holomorphic functions in radial tube domains. (Russian. Armenian summary) **94f:32008**
— Integral representations in tube domains over affinely homogeneous cones. (Russian. Armenian summary) **94f:32009**
— Integral representations and approximations of functions in tube domains over polyhedra. (Russian. Armenian summary) **94f:32012**
Landucci, Mario (*with* Patrizio, Giorgio) Proper holomorphic maps of Reinhardt domains which have a disk in their boundary. (English and French summaries) **94j:32018**
Lin, Ping[2] The Bergman kernel function and $\mathrm{Aut}(D)$ for the domain $D = \{z = (z_1, z_2) \in \mathbf{C}^2 : |z_1|^4 + |z_2| < 1\}$. (Chinese. English and Chinese summaries) **94j:32017**
Liu, Tai Shun Biholomorphic mappings in $\mathbf{C}^n$ and weak-star sequence generators of H^∞. (Chinese. English and Chinese summaries) **94h:32041**
Ma, Lan (*with* Michel, Joachim) $\bar{\mathscr{C}}^{k+a}$-estimates for the $\bar{\partial}$-equation on the Hartogs triangle. **94a:32029**
Michel, Joachim *see* **Ma, Lan, 94a:32029**
Musin, I. Kh. Paley-Wiener-type theorems for functions analytic in tube domains. (Russian. Russian summary) **94i:32004**
Pathak, R. S. *see* **Carmichael, R. D.; et al., 94f:46053**
Patrizio, Giorgio *see* **Landucci, Mario, 94j:32018**
Pilipović, Stevan *see* **Carmichael, R. D.; et al., 94f:46053**

Ruelle, David Analytic completion for dynamical zeta functions. (English summary) **94h:58141**
Sheu, Albert Jeu-Liang Toeplitz algebras of Reinhardt domains: an interaction between analysis and geometry. (English summary) **94f:46073**
(Shlosman, S. B.) *see* **Gindikin, S. G., 94d:35028**
Skibiński, Przemysław *see* **Charzyński, Zygmunt, 94h:32001**
Tsagas, Gr. F. *see* **Dimou, G. E., 94d:32046a**
Upmeier, Harald Toeplitz C^*-algebras and noncommutative duality. **94h:47047**
Wang, Tian Mu Holomorphic sectional curvature of a class of Reinhardt domains at the origin. (Chinese) **94g:32032**
Yin, Wei Ping Curvatures on a class of Reinhardt domains. (English summary) **94f:32048**
Zhu, Fu Liu The heat kernel of the second classical domain and of the symmetric space of a normal real form. (English summary) **94h:32054**

32A10 Holomorphic functions

Avanissian, V. (*with* Mignotte, Maurice) A variant of an inequality of Gel'fond and Mahler. **94j:32002**
Fichera, Gaetano Conditions for holomorphy of L^1_{loc} functions. **94g:32002**
Godula, Janusz Integral means of holomorphic functions in the unit ball. (English summary) **94g:32003**
Kajiwara, Joji (*with* Li, Lin; Tsuji, Miki) Real zeros of holomorphic functions with parameters. II. Complex numerical integration using FORTRAN77. **94k:32001**
Kolaski, Clinton J. Remarks on functions with positive real part on the ball in $\mathbf{C}^n$. **94h:32002**
Krivosheev, A. S. (*with* Napalkov, V. V.) Complex analysis and convolution operators. (Russian) **94e:32003**
Li, Lin *see* **Kajiwara, Joji; et al., 94k:32001**
Mignotte, Maurice *see* **Avanissian, V., 94j:32002**
Napalkov, V. V. *see* **Krivosheev, A. S., 94e:32003**
Nguyen Thanh Van (*with* Zériahi, Ahmed) Une extension du théorème de Hartogs sur les fonctions séparément analytiques. [Generalization of the Hartogs theorem for separately analytic functions] **94e:32004**
Ronkin, L. I. An estimate for the quotient of functions that are holomorphic on an algebraic set. (Russian. Russian summary) **94m:32002**
Tsuji, Miki *see* **Kajiwara, Joji; et al., 94k:32001**
Zériahi, Ahmed *see* **Nguyen Thanh Van, 94e:32004**

Items with secondary classifications in 32A10

Arlebrink, Jim Zeros of bounded holomorphic functions in strictly pseudoconvex domains in $\mathbf{C}^2$. (English and French summaries) **94f:32021**
Khenkin, G. M. (*with* Shananin, A. A.) $\mathbf{C}^n$-capacity and multidimensional moment problem. **94i:32018**
Pandeski, Nikola On some sequences of functions in the ball. (English summary) **94j:32005**
Shananin, A. A. *see* **Khenkin, G. M., 94i:32018**

32A15 Entire functions

Chang, Ch'iu Chêng On the uniqueness problem for entire functions of exponential type. (English summary) **94e:32005**
Davydova, E. E. Conditions for the slow growth of entire functions of exponential type along a real hyperplane. (Russian) **94a:32002**
Favorov, S. Yu. *see* **Logvinenko, V. N., 94d:32003**
Khabibullin, B. N. The least plurisuperharmonic majorant, and multipliers of entire functions. I. (Russian) **94d:32002a**
— The least plurisuperharmonic majorant, and multipliers of entire functions. II. Algebras of functions of finite λ-type. (Russian. Russian summary) **94d:32002b**
— Erratum: "The least plurisuperharmonic majorant, and multipliers of entire functions. II. Algebras of functions of finite λ-type". (Russian) **94d:32002c**
Kiselman, Christer O. Order and type as measures of growth for convex or entire functions. **94h:32004**
Krivosheev, A. S. Systems of convolution equations in convex domains of $\mathbf{C}^n$. (Russian) **94j:32003**
— Indicators of entire functions and the continuation of solutions of a homogeneous convolution equation. (Russian. Russian summary) **94k:32002**
Logvinenko, V. N. Some conditions for the positive definiteness of restrictions to $\mathbf{R}^n$ of entire functions of exponential type. (Russian) **94f:32006**
— (*with* Favorov, S. Yu.) Cartwright-type theorems and real sets of uniqueness for entire functions of exponential type. (Russian) **94d:32003**
Sekerin, A. B. On the reducibility of zero sets of entire functions of several variables. (Russian. English and Russian summaries) **94d:32004**
Sigurdsson, Ragnar Some recent results on growth properties of entire functions in $\mathbf{C}^n$. **94f:32007**
Supper, Raphaële Some uniqueness theorems for entire functions of several complex variables. **94e:32006**
Tararykova, T. V. Inequalities for integral and discrete norms of entire functions of exponential type. **94j:32004**

Items with secondary classifications in 32A15

Abanin, A. V. Some properties of weakly sufficient sets for spaces of exponential functions. (Russian) **94m:46036**
Andersson, Mats Unique linearly convex support of an analytic functional. **94d:32014**
Avanissian, V. (*with* Mignotte, Maurice) A variant of an inequality of Gel'fond and Mahler. **94j:32002**
Das, A. K. (*with* Mazumdar, N. C.) On the order and type of integral functions of several complex variables. **94j:32001**
Dzhrbashyan, M. M. (*with* Karapetyan, A. O.) Integral representations and uniqueness theorems for entire functions of several variables. (Russian. English, Russian and Armenian summaries) **94i:32001**
(Gol'dberg, A. A.) *see* **Maergoiz, L. S., 94f:30038**
Grechanyuk, M. I. The growth cone of entire double Dirichlet series. (Russian) **94h:32006**
Karapetyan, A. O. *see* **Dzhrbashyan, M. M., 94i:32001**
Khabibullin, B. N. A theorem on the least majorant and its applications. I. Entire and meromorphic functions. (Russian. Russian summary) **94f:31003**
(Khlebopros, R. G.) *see* **Maergoiz, L. S., 94f:30038**
Komarov, A. V. Operators in a topological module of entire functions that commute with differentiation on a submodule. (Russian. Russian summary) **94g:47040**
Krasiński, Tadeusz (*with* Spodzieja, Stanisław) On linear differential operators related to the n-dimensional Jacobian conjecture. **94h:14015**
Lelong, Pierre Mesure de Mahler des polynômes et majoration par convexité. (English and French summaries) [Mahler's measure for polynomials and upper bounds under convexity] **94a:32026**
Logvinenko, V. N. A separate analyticity theorem and an "edge of the wedge" theorem. (Russian) **94m:32017**
Maergoiz, L. S. ★ Асимптотические характеристики целых функций и их приложения в математике и биофизике. (Russian. English and Russian summaries) [Asymptotic characteristics of entire functions and their applications in mathematics and biophysics] **94f:30038**
Mazumdar, N. C. *see* **Das, A. K., 94j:32001**
Meise, Reinhold (*with* Taylor, B. A.; Vogt, Dietmar) Indicators of plurisubharmonic functions on algebraic varieties and Kaneko's Phragmén-Lindelöf condition. (English summary) **94d:32018**
Mignotte, Maurice *see* **Avanissian, V., 94j:32002**
Momm, Siegfried A critical growth rate for the pluricomplex Green function. **94i:32019**
Musin, I. Kh. *see* **Napalkov, V. V., 94m:32020**
Napalkov, V. V. (*with* Musin, I. Kh.) Polynomial approximation in a weighted space of entire functions. (Russian) **94m:32020**
Papush, D. E. Interpolation from discrete sets in $\mathbf{C}^l$. (Russian) **94e:32030**
— (*with* Russakovskii, A. M.) Interpolation on plane sets in $\mathbf{C}^2$. (English and French summaries) **94k:32015**
Russakovskii, A. M. *see* **Papush, D. E., 94k:32015**
Sekerin, A. B. On the representation of analytic functions of several variables by exponential series. (Russian. Russian summary) **94b:32003**
Sharma, Poonam On the order of an entire function of several complex variables represented by multiple Dirichlet series. **94f:32005**
Spodzieja, Stanisław *see* **Krasiński, Tadeusz, 94h:14015**
Srivastava, Rajiv K. Certain spaces of entire functions of several complex variables. (English summary) **94k:46053**
Taylor, B. A. *see* **Meise, Reinhold; et al., 94d:32018**
Vogt, Dietmar *see* **Meise, Reinhold; et al., 94d:32018**

32A17 Special families of functions (e.g. normal families)

Pandeski, Nikola On some sequences of functions in the ball. (English summary) **94j:32005**
Riihentaus, Juhani On preserving the normality of meromorphic functions. (English summary) **94d:32005**

Items with secondary classifications in 32A17

Khabibullin, B. N. The least plurisuperharmonic majorant, and multipliers of entire functions. I. (Russian) **94d:32002a**

32A20 Meromorphic functions

Items with secondary classifications in 32A20

Ball, Joseph A. (*with* Clancey, Kevin F.) Interpolation with meromorphic matrix functions. (English summary) **94h:47025**
Clancey, Kevin F. *see* **Ball, Joseph A., 94h:47025**
Khabibullin, B. N. The least plurisuperharmonic majorant, and multipliers of entire functions. II. Algebras of functions of finite λ-type. (Russian. Russian summary) **94d:32002b**
— Erratum: "The least plurisuperharmonic majorant, and multipliers of entire functions. II. Algebras of functions of finite λ-type". (Russian) **94d:32002c**
— A theorem on the least majorant and its applications. I. Entire and meromorphic functions. (Russian. Russian summary) **94f:31003**
Li, Bao Qin (*with* Yang, Chung-Chun) Factorization of meromorphic functions in several complex variables. **94a:32006**
Sekerin, A. B. Construction of entire and meromorphic functions of several variables with given growth, and some applications. (Russian) **94m:32003**
Yang, Chung-Chun *see* **Li, Bao Qin, 94a:32006**

32A22 Nevanlinna theory (local); growth estimates; other inequalities {For geometric theory, see 32H25, 32H30.}

Aron, Richard (*with* Beauzamy, Bernard; Enflo, Per) Polynomials in many variables: real vs complex norms. (English summary) **94h:32003**
Beauzamy, Bernard *see* **Aron, Richard; et al., 94h:32003**
Enflo, Per *see* **Aron, Richard; et al., 94h:32003**
Opoola, T. O. On the growth of the minimum modulus of entire functions of exponential type. (English summary) **94e:32007**
(Ronkin, A.) *see* **Ronkin, L. I., 94d:32006**
Ronkin, L. I. ★ Functions of completely regular growth. **94d:32006**
Sekerin, A. B. Construction of entire and meromorphic functions of several variables with given growth, and some applications. (Russian) **94m:32003**
Shi, Ji Huai Some results on singular integrals and function spaces in several complex variables. (English summary) **94b:32005**
(Yedvabnik, I.) *see* **Ronkin, L. I., 94d:32006**

Items with secondary classifications in 32A22

Dong, Dao Zhen *see* **Zhang, Wen Jun, 94a:58008**

(Gol'dberg, A. A.) *see* **Maergoiz, L. S., 94f:30038**

Hu, Pei Chu (*with* Yang, Chung-Chun) Pseudo volume forms and their applications to holomorphic mappings. **94h:32043**

(Khlebopros, R. G.) *see* **Maergoiz, L. S., 94f:30038**

Li, Bao Qin (*with* Yang, Chung-Chun) Factorization of meromorphic functions in several complex variables. **94a:32006**

Maergoiz, L. S. ★ Асимптотические характеристики целых функций и их приложения в математике и биофизике. (Russian. English and Russian summaries) [Asymptotic characteristics of entire functions and their applications in mathematics and biophysics] **94f:30038**

Ronkin, L. I. On the regularity of growth of a plurisubharmonic function in a space and on subspaces. (Russian) **94k:32016**

Ru, Min (*with* Stoll, Wilhelm) The Nevanlinna conjecture for moving targets. (English summary) **94d:32036**

Sigurdsson, Ragnar Some recent results on growth properties of entire functions in $\mathbf{C}^n$. **94f:32007**

Stoll, Wilhelm *see* **Ru, Min, 94d:32036**

Yang, Chung-Chun *see* **Li, Bao Qin, 94a:32006** *and* **Hu, Pei Chu, 94h:32043**

Zhang, Wen Jun (*with* Dong, Dao Zhen) A growth theorem and a $\frac{1}{4}$-theorem for starlike mappings in Banach spaces. (Chinese. Chinese summary) **94a:58008**

32A25 Integral representation

Aizenberg, L. A. Correction to: "Carleman formulas with a holomorphic kernel and with integration over boundary sets of maximal dimension" [Dokl. Akad. Nauk **325** (1992), no. 6, 1095–1098; MR 93j:32005]. **94m:32004**

Berenstein, Carlos A. (*with* Yger, Alain) About L. Ehrenpreis fundamental principle. **94m:32004**

Dzhrbashyan, M. M. (*with* Karapetyan, A. O.) Integral representations and uniqueness theorems for entire functions of several variables. (Russian. English, Russian and Armenian summaries) **94i:32001**

Fischer, Bert (*with* Leiterer, Jürgen) A local Martinelli-Bochner formula on hypersurfaces. **94i:32002**

Karapetyan, A. O. Integral representations of holomorphic functions in radial tube domains. (Russian. Armenian summary) **94f:32008**

— Integral representations in tube domains over affinely homogeneous cones. (Russian. Armenian summary) **94f:32009**

— *see also* **Dzhrbashyan, M. M., 94i:32001**

Kytmanov, A. M. (*with* Prenov, B. B.; Tarkhanov, N. N.) The Poincaré-Bertrand formula for the Martinelli-Bochner integral. (Russian) **94i:32003**

Leiterer, Jürgen *see* **Fischer, Bert, 94i:32002**

Lin, Liang Yu Boundary behavior of a class of integrals of Cauchy type. (Chinese. English and Chinese summaries) **94f:32010**

Michels, Ingeborg ★ Integraldarstellung und Regularitätseigenschaften von Projektionsoperatoren. (German) [Integral representation and regularity properties of projection operators] **94a:32003**

Musin, I. Kh. Paley-Wiener-type theorems for functions analytic in tube domains. (Russian. Russian summary) **94i:32004**

Peetre, Jaak A reproducing formula for vector valued functions over a Cartan domain. (English, Russian and Estonian summaries) **94k:32003**

Prenov, B. B. *see* **Kytmanov, A. M.; et al., 94i:32003**

Qiu, Chun Hui A composite formula for a class of Cauchy-Fantappiè integrals. (Chinese. English and Chinese summaries) **94h:32004**

Shirokov, N. A. A direct theorem in a strictly convex domain in $\mathbf{C}^n$. (Russian. English and Russian summaries) **94j:32006**

Tarkhanov, N. N. *see* **Kytmanov, A. M.; et al., 94i:32003**

Yao, Zong Yuan A type I B-M formula for smooth functions in $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **94e:32008**

— An integral representation of smooth functions on bounded domains with piecewise smooth boundary in $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **94e:32009**

Yger, Alain *see* **Berenstein, Carlos A., 94m:32004**

Zhong, Tong De Singular integrals and integral representations in several complex variables. **94d:32007**

— A jump formula for the Bochner-Martinelli-Koppelman transform of differential forms on Stein manifolds. (Chinese. English and Chinese summaries) **94h:32005**

Zhong, Zhong Luan Extension of the B-M integral formula of type I in $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **94e:32010**

Items with secondary classifications in 32A25

Arlebrink, Jim Zeros of bounded holomorphic functions in strictly pseudoconvex domains in $\mathbf{C}^2$. (English and French summaries) **94f:32021**

Bavrin, I. I. ★ Операторный метод в комплексном анализе. (Russian. Russian summary) [The operator method in complex analysis] **94f:32001**

Berhanu, S. (*with* Chanillo, Sagun) Hölder and L^p estimates for a local solution of $\overline{\partial}_b$ at top degree. (English summary) **94f:32035**

Chanillo, Sagun *see* **Berhanu, S., 94f:32035**

Laurent-Thiébaut, Christine (*with* Leiterer, Jürgen) Uniform estimates for the Cauchy-Riemann equation on q-concave wedges. (English summary) **94m:32024**

Leiterer, Jürgen *see* **Laurent-Thiébaut, Christine, 94m:32024**

Lu, Qi Keng The Poisson formula for harmonic $(1,0)$-forms in a ball of $\mathbf{C}^n$. **94k:32023**

Michel, Joachim ★ Der Neumannoperator auf streng pseudokonkaven Gebieten und andere Anwendungen der Integralformelmethode. (German) [The Neumann operator on strictly pseudoconcave domains and other applications of the integral formula method] **94g:32023**

Mitelman, Igor M. (*with* Shapiro, M. V.) Formulae of changing of integration order and of inversion for some multidimensional singular integrals and hypercomplex analysis. (English summary) **94k:32004**

Petrosyan, A. I. An estimate in the C^m-norm for minimal solutions of the $\overline{\partial}$-equation in a polydisk. (Russian. English, Russian and Armenian summaries) **94f:32037**

Shapiro, M. V. *see* **Mitelman, Igor M., 94k:32004**

Shi, Ji Hual Some results on singular integrals and function spaces in several complex variables. (English summary) **94b:32005**

32A27 Local theory of residues [see also 32C30]

Berenstein, Carlos A. How difficult is it to solve a system of algebraic equations? (Spanish) **94m:32005**

— (*with* Gay, Roger; Vidras, Alekos; Yger, Alain) ★ Residue currents and Bezout identities. (English summary) **94m:32006**

Gay, Roger *see* **Berenstein, Carlos A.; et al., 94m:32006**

Hatziafratis, Telemachos On the multiplicity of holomorphic maps and a residue formula. (English summary) **94e:32011**

Passare, Mikael (*with* Tsikh, A.) On the relations between the local structure of holomorphic mappings, multidimensional residues and generalized Mellin transforms. (Russian) **94a:32004**

Tsikh, A. *see* **Passare, Mikael, 94a:32004**

Vidras, Alekos *see* **Berenstein, Carlos A.; et al., 94m:32006**

Yger, Alain *see* **Berenstein, Carlos A.; et al., 94m:32006**

Items with secondary classifications in 32A27

Delanghe, R. (*with* Sommen, F.; Souček, Vladimír) Residues in Clifford analysis. **94b:30058**

Dolbeault, Pierre On the structure of residual currents. (English summary) **94e:32021**

Elkadi, M. Bornes pour les degrés et les hauteurs dans le problème de division. (English summary) [Bounds for degrees and heights in the division problem] **94i:14063**

Lehmann, Daniel Des différences de résidus et une identité remarquable. [Differences of residues and a remarkable identity] **94i:32060**

Passare, Mikael On the support of residue currents. **94c:32002**

Schapira, Pierre (*with* Tose, Nobuyuki) Morse inequalities for perverse sheaves. **94e:58021**

Sommen, F. *see* **Delanghe, R.; et al., 94b:30058**

Souček, Vladimír *see* **Delanghe, R.; et al., 94b:30058**

Tose, Nobuyuki *see* **Schapira, Pierre, 94e:58021**

32A30 Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30) {For functions of several hypercomplex variables, see 30G35.}

FitzGerald, Carl H. *see* **Gong, Sheng, 94g:32004**

Gong, Sheng (*with* FitzGerald, Carl H.) The Schwarzian derivative in several complex variables. (English summary) **94g:32004**

Grechanyuk, M. I. The growth cone of entire double Dirichlet series. (Russian) **94h:32006**

Królikowski, Wiesław (*with* Ramírez de Arellano, Enrique) Polynomial solutions of the Fueter-Hurwitz equation. (English summary) **94a:32005**

Li, Bao Qin (*with* Yang, Chung-Chun) Factorization of meromorphic functions in several complex variables. **94a:32006**

Mitelman, Igor M. (*with* Shapiro, M. V.) Formulae of changing of integration order and of inversion for some multidimensional singular integrals and hypercomplex analysis. (English summary) **94k:32004**

Ramírez de Arellano, Enrique *see* **Królikowski, Wiesław, 94a:32005**

Shapiro, M. V. *see* **Mitelman, Igor M., 94k:32004**

Yang, Chung-Chun *see* **Li, Bao Qin, 94a:32006**

Items with secondary classifications in 32A30

Choe, Boo Rim Böcher's theorem for $\mathscr{M}$-harmonic functions. (English summary) **94h:31004**

Daoud, Suzanne Certain operators in the space of entire functions represented by Dirichlet series of several complex variables. (English summary) **94e:32001**

Dolzhenko, E. P. D. E. Men'shov and the current state of monogeneity theory. (Russian. Russian summary) **94d:30001**

Gong, Sheng Biholomorphic mappings in several complex variables. **94a:32035**

— (*with* Wang, Shi Kun; Yu, Qi Huang) Biholomorphic convex mappings of ball in $\mathbf{C}^n$. (English summary) **94i:32029**

Hu, Pei Chu (*with* Yang, Chung-Chun) Pseudo volume forms and their applications to holomorphic mappings. **94h:32043**

Karimova, M. M. Applications of Tauberian theorems. (Russian) **94f:30004**

Lutsishin, M. R. *see* **Skaskiv, O. B., 94e:32002**

(Men'shov, D. E.) *see* **Dolzhenko, E. P., 94d:30001**

Nōno, K. On the linearization of a partial differential operator and p-hyperholomorphic functions. (English summary) **94c:32003**

Riihentaus, Juhani On preserving the normality of meromorphic functions. (English summary) **94d:32005**

Ronkin, L. I. An estimate for the quotient of functions that are holomorphic on an algebraic set. (Russian. Russian summary) **94m:32002**

Schwarz, Binyamin The Schwarz-Pick theorem for the unit disk of the projective matrix space. (English summary) **94d:32034**

Sekerin, A. B. On the reducibility of zero sets of entire functions of several variables. (Russian. English and Russian summaries) **94d:32004**

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32A37 Other spaces of holomorphic functions (e.g. bounded mean oscillation (BMOA), vanishing mean oscillation (VMOA) in n dimensions) [see also 46Exx]

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32A40 Boundary behavior

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Dovbush, P. V. On the existence of admissible and weakly admissible limits of functions of several complex variables. (Russian. Russian summary) **94d:32016**
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Stoll, Manfred Composition of potentials with inner functions. (English summary) **94b:31006**
Thilliez, Vincent Interpolation Gevrey dans les domaines de type fini de $\mathbf{C}^2$. [Gevrey interpolation in domains of finite type in $\mathbf{C}^2$] **94d:32015**
Yin, Cheng Yuan Solutions of a kind of singular integral equations on surface of ball in $\mathbf{C}^n$. (English summary) **94k:45009**
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32A45 Hyperfunctions [see also 46F15]

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— (*with* Kawai, Takahiro; Struppa, Daniele C.) Interpolation theorems in several complex variables and applications. **94h:32016**

Chung, Soon-Yeong (*with* Kim, Dohan; Kim, Sung Ki) Structure of the extended Fourier hyperfunctions. **94m:46075**

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Kawai, Takahiro *see* **Berenstein, Carlos A.; et al., 94h:32016**

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Komatsu, Hikosaburo An elementary theory of hyperfunctions and microfunctions. **94b:46067**

Krivosheev, A. S. (*with* Napalkov, V. V.) Complex analysis and convolution operators. (Russian) **94e:32003**

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Yan, Zhi Min A class of generalized hypergeometric functions in several variables. (English summary) **94c:33026**

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32B10 Germs of analytic sets

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32B15 Analytic subsets of affine space

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Łojasiewicz, Stanisław Théorème de Tamm-Kurdyka des points lisses d'un sous-analytique. [The Tamm-Kurdyka theorem on the smooth points of a subanalytic subset] **94m:32011**

Mihalache, Nicolae Every finitely presented group is the π_1 of some two-dimensional Stein space. **94m:32012**

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Parusiński, Adam Subanalytic functions. **94k:32006**

Pleśniak, Wiesław L-regularity in the constructive theory of functions. (English summary) **94a:32010**

Tougeron, J.-Cl. Sur les ensembles semi-analytiques avec conditions Gevrey au bord. (English summary) [On semi-analytic sets with Gevrey conditions on the boundary] **94m:32013**

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Fu, Joseph H. G. Curvature of singular spaces via the normal cycle. **94f:53126**

Lion, Jean-Marie Un lemme d'aile pour les ensembles pfaffiens. (English and French summaries) [A wing lemma for Pfaffian sets] **94d:58004**

Lipshitz, L. Rigid subanalytic sets. **94d:32047**

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Robinson, Zachary Smooth points of p-adic subanalytic sets. (English summary) **94h:32055**

32Cxx General theory of analytic spaces

32C05 Real-analytic manifolds, real-analytic spaces [see also 14Pxx, 58A07]

Acquistapace, F. (*with* Broglia, F.) Correction to the paper: "Signatures and flatness" [J. Reine Angew. Math. **425** (1992), 61–70; MR 93h:32011]. **94h:32008**

Ancona, Vincenzo (*with* Gaveau, Bernard) Intégrales de formes différentielles et théorèmes de de Rham sur un espace analytique. (English and French summaries) [Integrals of differential forms and de Rham theorems on an analytic space] **94h:32009**

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Guaraldo, Francesco Some classification theorems for real analytic fibre bundles. (English and French summaries) **94b:32008**

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32C07 Real-analytic sets, complex Nash functions [see also 14P15, 14P20]

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Gaveau, Bernard *see* **Ancona, Vincenzo, 94h:32009**

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— (*with* Shiota, Masahiro) On global Nash functions. (English summary) **94m:14073**

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32C10 Complex manifolds {For almost complex manifolds, see 53C15.}

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Cho, Sanghyun Extension of complex structures on weakly pseudoconvex compact complex manifolds with boundary. **94h:32030**

Cordero, Luis A. (*with* Fernández, Marisa; Gray, Alfred) The failure of complex and symplectic manifolds to be Kählerian. **94e:53071**

Domrin, A. V. Calculation of the intersection index of a totally real and a totally complex disk with a common boundary in $\mathbf{P}^2$ and $\mathbf{P}^1 \times \mathbf{P}^1$. (Russian. Russian summary) **94h:32027**

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— Holomorphic conformal structures and characteristic forms. (English summary) **94b:53108**

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32C11 Complex supergeometry [see also 14A22, 14M30, 58A50]

Kachkachi, Hamid (*with* Kachkachi, M.) Superconformal structures and holomorphic $\frac{1}{2}$-superdifferentials on $N = 1$ super Riemann surfaces. (English summary) **94h:32010**
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McHugh, Andrew The space of super light rays for complex conformal spacetimes. (English summary) **94m:32046**
Mendoza, Alberto Superholomorphic structures, moment maps and super self-dual Yang Mills connections over super Riemann surfaces. (English summary) **94f:53041**
Merkulov, S. A. Quaternionic supermanifolds. (Russian) **94e:58003**
Onishchik, A. L. On the rigidity of super-Grassmannians. (English summary) **94m:14069**
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32C15 Complex spaces

Tung, Chia Chi On the degree theory of holomorphic mappings. (English summary) **94e:32018**
Vâjâitu, Viorel Cohomology with compact supports for q-complete spaces. **94b:32009**

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Achilles, Rüdiger (*with* Manaresi, Mirella) Multiplicities for improper intersections of analytic subsets. (English summary) **94e:32019**
Barlet, Daniel (*with* Silva, Alessandro) Convexité holomorphe intermediaire. (English summary) [Intermediate holomorphic convexity] **94f:32033**
Manaresi, Mirella *see* **Achilles, Rüdiger, 94e:32019**
Silva, Alessandro *see* **Barlet, Daniel, 94f:32033**

32C16 CR-manifolds

Aizenberg, L. A. (*with* Rea, Claudio) The moment-condition for the free boundary problem for CR functions. **94f:32018**
Dolbeault, Pierre CR analytic varieties with given boundary. **94b:32010**
Ezhov, V. V. (*with* Schmalz, Gerd) Poincaré automorphisms for nondegenerate CR quadrics. **94j:32007**
Graham, C. Robin Invariant theory of parabolic geometries. **94a:32013**
Han, Zu Hong A note on CR manifolds. (Chinese. Chinese summary) **94d:32011**
— Foliations on CR manifold. (English summary) **94g:32010**
Hill, C. Denson (*with* Nacinovich, Mauro) The topology of Stein CR manifolds and the Lefschetz theorem. (English and French summaries) **94d:32012**
Inaba, Takashi On the nonexistence of CR functions on Levi-flat CR manifolds. (English summary) **94i:32009**
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Baouendi, M. S. (*with* Rothschild, Linda Preiss) Images of real hypersurfaces under holomorphic mappings. **94i:32028**
Boggess, Albert ★ CR manifolds and the tangential Cauchy-Riemann complex. **94e:32035**
Bungart, Lutz Vanishing cup products on pseudoconvex CR manifolds. (English summary) **94b:32059**
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Hill, C. Denson A family of exotic CR structures on $S^3 \times S^2$. **94f:32039**
— (*with* Nacinovich, Mauro) A necessary condition for global Stein immersion of compact CR-manifolds. (English summary) **94f:32040**
Iwata, Keiji (*with* Shiga, Kiyoshi; Takeuchi, Shigeru) Category of CR vector spaces. (English summary) **94h:32031**
Kohn, J. J. Embedding of CR manifolds. **94a:32031**
LeBrun, Claude A Kähler structure on the space of string worldsheets. (English summary) **94m:58009**
Lempert, László On three-dimensional Cauchy-Riemann manifolds. **94d:32025**
— Loop spaces as complex manifolds. **94m:58010**
Li, Zhongyuan Uniformization of spherical CR manifolds and the CR Yamabe problem. **94e:32036**
Meziani, Abdelhamid Perturbation of a class of CR structures of codimension larger than one. (English summary) **94i:32024**
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Rothschild, Linda Preiss *see* **Baouendi, M. S., 94i:32028**
Saerens, Rita (*with* Zame, William R.) The local automorphism group of a CR hypersurface. **94f:32065**
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Sukhov, A. B. On the mapping problem for quadric Cauchy-Riemann manifolds. (English summary) **94e:32039**
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32C17 Kähler geometry {For differential-geometric methods see 53C55.}

Azad, H. (*with* Loeb, J.-J.) Plurisubharmonic functions and Kählerian metrics on complexification of symmetric spaces. **94a:32014**
Chen, Zhi Hua Complex geometry in China. **94a:32015**
Geatti, Laura On the curvature of bounded homogeneous domains. **94f:32019**
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Aspinwall, Paul S. (*with* Lütken, C. A.) A new geometry from superstring theory. (English summary) (*see* **94b:32001**)
Ceresole, A. (*with* D'Auria, R.; Ferrara, S.; Lerche, W.; Louis, J.) Picard-Fuchs equations and special geometry. (English summary) **94f:32046**
D'Auria, R. *see* **Ceresole, A.; et al., 94f:32046**
Ferrara, S. (*with* Kounnas, Costas; Lüst, Dieter; Zwirner, F.) Automorphic functions and special Kähler geometry. (English summary) (*see* **94b:32001**)
— *see also* **Ceresole, A.; et al., 94f:32046**
Fujiki, Akira An L^2 Dolbeault lemma and its applications. (English summary) **94f:32061**
Harris, Bruno Cycle pairings and the heat equation. **94h:58162**
Isaenko, E. M. Integrability conditions for a certain class of nonlinear evolution equations and Kähler geometry. (English summary) **94m:58111a**
— Erratum: "Integrability conditions for a certain class of nonlinear evolution equations and Kähler geometry". **94m:58111b**
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Kobayashi, Ryoichi Ricci-flat Kähler metrics on affine algebraic manifolds and degenerations of Kähler-Einstein $K3$ surfaces. **94c:53082**
— Rigidity theorems on spheres and complex projective spaces. (English summary) **94m:53046**
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LeBrun, Claude Self-dual manifolds and hyperbolic geometry. (English summary) **94h:53060**
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Li, Peter (*with* Yau, Shing-Tung) Asymptotically flat complete Kähler manifolds. **94a:53101**
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Pinney, Karen R. Ricci curvature and holomorphic convexity in Kähler manifolds. (English summary) **94j:32023**
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Stern, Mark Index theory for certain complete Kähler manifolds. **94g:58212**
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Vuono, Charles The Kodaira embedding theorem for Kähler varieties with isolated singularities. (English summary) **94h:32049**
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32C18 Topology of analytic spaces

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Vâjâitu, Viorel Cohomology with compact supports for q-complete spaces. **94b:32009**

32C20 Normal analytic spaces

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Tung, Chia Chi On the degree theory of holomorphic mappings. (English summary) **94e:32018**

32C25 Analytic subsets and submanifolds

Achilles, Rüdiger (*with* Manaresi, Mirella) Multiplicities for improper intersections of analytic subsets. (English summary) **94e:32019**
Arlebrink, Jim Zeros of bounded holomorphic functions in strictly pseudoconvex domains in $\mathbf{C}^2$. (English and French summaries) **94f:32021**
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Rapp, Manfred Continuation of positive, closed currents and analytic sets. **94m:32018**
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32C30 Integration on analytic sets and spaces, currents {For local theory, see 32A25 or 32A27.}

Almgren, Frederick J., Jr. What can geometric measure theory do for several complex variables? **94f:32022**
Babouche, Nora-Louiza Restriction d'un courant positif fermé à une hypersurface complexe. (English and French summaries) [Restriction of a closed positive current to a smooth complex hypersurface] **94i:32010**
Ben Messaoud, Hedi (*with* El Mir, Hassine) Tranche et prolongement d'un courant positif fermé. (English and French summaries) [Slice and extension of a positive d-closed current] **94e:32020**
Blel, Mongi Sur le cône tangent associé à un courant positif fermé. (French summary) [On the tangent cone associated with a closed positive current] **94k:32008**
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Dolbeault, Pierre On the structure of residual currents. (English summary) **94e:32021**
— (*with* Khenkin, G. M.) Surface de Riemann de bord donné dans $\mathbf{CP}^2$. (English and French summaries) [Riemann surfaces of given boundary in $\mathbf{CP}^2$] **94i:32011**
El Haouzi, Abdallah Formes de type trace. (English and French summaries) [Forms of trace type] **94e:32022**
El Mir, Hassine *see* **Ben Messaoud, Hedi, 94e:32020**
Khenkin, G. M. *see* **Dolbeault, Pierre, 94i:32011**
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Passare, Mikael On the support of residue currents. **94c:32002**
Smirnov, M. M. Some properties of CR-currents in complex manifolds. (Russian) **94a:32016**

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Andronikof, Emmanuel Intégrales de Nilsson et faisceaux constructibles. [Nilsson integrals and constructible sheaves] **94d:32051**
Barlet, Daniel (*with* Mardhy, A.) Un critère topologique d'existence de pôles pour le prolongement méromorphe de $\int_A f^\lambda \square$. (English and French summaries) [A topological criterion for the existence of poles for the meromorphic extension of $\int_A f^\lambda \square$] **94k:32060**
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Berenstein, Carlos A. How difficult is it to solve a system of algebraic equations? (Spanish) **94m:32005**
— (*with* Yger, Alain) About L. Ehrenpreis fundamental principle. **94m:32004**
— (*with* Gay, Roger; Vidras, Alekos; Yger, Alain) ★ Residue currents and Bezout identities. (English summary) **94m:32006**
Delanghe, R. (*with* Sommen, F.; Souček, Vladimír) Residues in Clifford analysis. **94b:30058**
Fichera, Gaetano Conditions for holomorphy of L^1_{loc} functions. **94g:32002**
Fu, Joseph H. G. Curvature of singular spaces via the normal cycle. **94f:53126**
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Ji, Shanyu Currents, metrics and Moishezon manifolds. (English summary) **94m:32044**
Lehmann, Daniel Des différences de résidus et une identité remarquable. [Differences of residues and a remarkable identity] **94i:32060**
Lelong, Pierre Fonctions plurisousharmoniques de croissance logarithmique dans $\mathbf{C}^n$; partie principale, extension du résultant des polynômes. [Plurisubharmonic functions with logarithmic growth in $\mathbf{C}^n$; principal part, extension of the resultant of polynomials] **94g:32016**
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Poletsky, Evgeny A. Holomorphic currents. (English summary) **94c:32007**
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32C35 Analytic sheaves and cohomology groups [see also 14Fxx, 18F20, 55N30]

Berenstein, Carlos A. (*with* Struppa, Daniele C.) Sheaves of holomorphic functions with growth conditions. **94h:32013**
Burlakov, M. P. Generalized Grassmann algebras on complex manifolds. (Russian) **94d:32013**
Gigante, Giuliana (*with* Tomassini, Giuseppe) Foliations with complex leaves. (English and Italian summaries) **94f:32023**
Golovin, V. D. Cohomologically finite sheaves. (Russian) **94f:32024**
Lupacciolu, Guido Approximation and cohomology vanishing properties of low-dimensional compact sets in a Stein manifold. **94e:32023**
Putinar, Mihai On a criterion of coherence for Fréchet analytic sheaves. **94k:32010**
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Kazama, Hideaki (*with* Umeno, Takashi) Some Dolbeault isomorphisms for locally trivial fiber spaces and applications. **94d:32041**
Lupacciolu, Guido Complements of domains with respect to hulls of outside compact sets. **94h:32015**
Scalari, Alberto (*with* Zampieri, Giuseppe) The "edge of the wedge" theorem in microlocalization at the boundary. (Italian. English and Italian summaries) **94b:32011**
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Wong, H. W. Dolbeault cohomologies and Zuckerman modules. **94i:22032**
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32C36 Local cohomology of analytic spaces

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Montaldi, James (*with* van Straten, Duco) Quotient spaces and critical points of invariant functions for $\mathbf{C}^*$-actions. **94g:32043**
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32C37 Duality theorems

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32C38 Sheaves of differential operators and their modules [see also 14F10, 16S32, 35A27, 58G07]

Andronikof, Emmanuel Erratum: "The Kashiwara conjugation and wave-front sets of regular holonomic distributions on a complex manifold" [Invent. Math. **111** (1993), no. 1, 35–49; MR 93k:32016].
D'Agnolo, Andrea Flabbiness for solution sheaves of microdifferential systems. **94f:32025**
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— Local b-functions of prehomogeneous Lagrangians. **94j:32008**
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Kashiwara, Masaki (*with* Kawai, Takahiro; Takei, Yoshitsugu) The structure of cohomology groups associated with the theta-zerovalues. **94k:32011**
Kato, G. Cohomology and D-modules. **94i:32012**
Kato, Tomohisa (*with* Kawai, Sôichi) On an explicit presentation of $\mathscr{D}_X$ module $\mathscr{L}(Y, X)$ for some simple X, Y. I. **94e:32024**
Kawai, Sôichi *see* **Kato, Tomohisa, 94e:32024**
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Laurent, Yves Microlocal operators with plurisubharmonic growth. **94a:32017**
— Vanishing cycles of $\mathscr{D}$-modules. **94e:32025**
Majima, Hideyuki On the irregularity of $\mathscr{D}_X$-module. **94f:32026**
Rodrigues, Rui Décomposition formelle d'un système microdifférentiel aux points génériques. (English and French summaries) [Formal decomposition of a microdifferential system at the generic points] **94g:32011**
Sato, Mikio Algebraic analysis and I. (Japanese) **94m:32016**
Scalari, Alberto (*with* Zampieri, Giuseppe) The "edge of the wedge" theorem in microlocalization at the boundary. (Italian. English and Italian summaries) **94b:32011**
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Zampieri, Giuseppe *see* **Scalari, Alberto, 94b:32011**

Items with secondary classifications in 32C38

Andronikof, Emmanuel Singularities of generalized Euler integrals. (English summary) **94e:32054**
Boutet de Monvel, Louis Revue sur la théorie des $\mathscr{D}$-modules et modèles d'opérateurs pseudodifférentiels. [A survey of the theory of $\mathscr{D}$-modules and models of pseudodifferential operators] **94g:58220**
Charbonnel, Jean-Yves Opérateurs différentiels et mesures invariantes. [Differential operators and invariant measures] **94k:17017**
D'Agnolo, Andrea (*with* Schapira, Pierre) Correspondance de $\mathscr{D}$-modules et transformation de Penrose. [$\mathscr{D}$-module correspondence and Penrose transform] **94j:32026**
Joshua, Roy Riemann-Roch for weakly-equivariant D-modules. II. **94m:14010**
Kataoka, Kiyômi (*with* Okada, Yasunori; Tose, Nobuyuki) Decomposition of second microlocal analytic singularities. **94a:58182**
Laurent, Yves Vanishing cycles and systems of differential equations. (English summary) **94g:58208**
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Sabbah, Claude Systèmes holonomes d'équations aux q-différences. (French summary) [Holonomic systems of q-difference equations] **94g:33018**
Schapira, Pierre (*with* Schneiders, Jean-Pierre) Euler classes for elliptic pairs. (English summary) **94k:58142**
— *see also* **D'Agnolo, Andrea, 94j:32026**
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32C81 Applications to physics

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Kachkachi, M. (*with* Lhallabi, T.) (2, 0) super-Beltrami parametrization and superconformal structures. (English summary) **94h:32011**
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Ninnemann, Holger Deformations of super Riemann surfaces. (English summary) **94a:32012**

32Dxx Analytic continuation

32D05 Domains of holomorphy

Nōno, K. On the linearization of a partial differential operator and p-hyperholomorphic functions. (English summary) **94c:32003**

Items with secondary classifications in 32D05

Calvi, Jean Paul Interpolation in Fréchet spaces with an application to complex function theory. (English summary) **94e:46003**

32D10 Envelopes of holomorphy

Kajiwara, Joji (*with* Kim, Jong Jin; Li, Lin; Watanabe, Hideharu) On spectrum for a domain over a product space of complex projective spaces. **94b:32012**
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Backlund, U. (*with* Fällström, A.) A pseudoconvex domain with nonschlicht H^∞-envelope. **94f:32034**
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Kajiwara, Joji (*with* Li, Lin; Nishihara, Masaru; Yoshida, Mamoru) Continuation of holomorphic sections of holomorphic fiber bundles over domains of infinite-dimensional spaces equipped with the finite open topology. (English summary) **94j:58016**
Li, Lin *see* **Kajiwara, Joji; et al., 94j:58016**
Nishihara, Masaru *see* **Kajiwara, Joji; et al., 94j:58016**
Yoshida, Mamoru *see* **Kajiwara, Joji; et al., 94j:58016**

32D15 Continuation of analytic objects

Aizenberg, L. A. (*with* Rea, Claudio) The moment condition in a problem with a free boundary for CR-functions. (Russian) **94i:32013**
Baouendi, M. S. (*with* Rothschild, Linda Preiss) Unique continuation and a Schwarz reflection principle for analytic sets. **94i:32014**
Karepov, O. V. On the holomorphic continuation of functions from subsets of the Shilov boundary of circular strongly star-like domains. (Russian. Russian summary) **94i:32015**
Logvinenko, V. N. A separate analyticity theorem and an "edge of the wedge" theorem. (Russian) **94m:32017**
Ohsawa, Takeo The existence of right inverses of residue homomorphisms. **94f:32028**
Rapp, Manfred Continuation of positive, closed currents and analytic sets. **94m:32018**
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Items with secondary classifications in 32D15

Aizenberg, L. A. (*with* Rea, Claudio) The moment-condition for the free boundary problem for CR functions. **94f:32018**
Alessandrini, Lucia (*with* Bassanelli, Giovanni) Plurisubharmonic currents and their extension across analytic subsets. (English summary) **94i:32017**
Bassanelli, Giovanni *see* **Alessandrini, Lucia, 94i:32017**
Ben Messaoud, Hedi (*with* El Mir, Hassine) Tranche et prolongement d'un courant positif fermé. (English and French summaries) [Slice and extension of a positive d-closed current] **94e:32020**
Diederich, Klas (*with* Pinchuk, S. I.) The inverse of a CR-homeomorphism is CR. (English summary) **94g:32034**
Ehrenpreis, Leon Extensions of solutions of partial differential equations. **94d:35118**
El Mir, Hassine *see* **Ben Messaoud, Hedi, 94e:32020**
Heinzner, Peter Equivariant holomorphic extensions of real analytic manifolds. (English and French summaries) **94i:32050**
Kytmanov, A. M. (*with* Nikitina, T. N.) Removable singularities of CR-functions given on generic manifolds. (Russian) **94c:32004**
Nguyen Thanh Van (*with* Zériahi, Ahmed) Une extension du théorème de Hartogs sur les fonctions séparément analytiques. [Generalization of the Hartogs theorem for separately analytic functions] **94e:32004**
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Ôuchi, Sunao The behaviour of solutions with singularities on a characteristic surface to linear partial differential equations in the complex domains. **94e:35012**
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Schmalz, Gerd Uniqueness theorems for CR functions. (English summary) **94g:32024**
Sukhov, A. B. Holomorphic mappings of domains of "wedge" type. (Russian. Russian summary) **94e:32047**
Zériahi, Ahmed *see* **Nguyen Thanh Van, 94e:32004**
Zhong, Tong De Singular integrals and integral representations in several complex variables. **94d:32007**

32D20 Removable singularities

Alexander, H. Removable sets for CR functions. **94a:32018**
Charpentier, Philippe Sur les valeurs au bord de solutions de l'equation $\overline{\partial} u = f$. [Boundary values of solutions of $\overline{\partial} u = f$] **94f:32029**
Kytmanov, A. M. (*with* Nikitina, T. N.) Removable singularities of CR-functions given on generic manifolds. (Russian) **94c:32004**
Nikitina, T. N. *see* **Kytmanov, A. M., 94c:32004**
Shevchishin, V. V. Cohomological obstructions for the extension of holomorphic line bundles. (Russian. Russian summary) **94a:32019**
Stout, Edgar Lee Removable singularities for the boundary values of holomorphic functions. **94a:32020**
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Items with secondary classifications in 32D20

Diederich, Klas (*with* Pinchuk, S. I.) The inverse of a CR-homeomorphism is CR. (English summary) **94g:32034**
Laurent-Thiébaut, Christine Phénomène de Hartogs-Bochner relatif dans une hypersurface réelle 2-concave d'une variété analytique complexe. [Relative Hartogs-Bochner effect in a 2-concave real hypersurface of a complex analytic manifold] **94d:32023**
Pinchuk, S. I. *see* **Diederich, Klas, 94g:32034**

32D99 None of the above, but in this section

Shekhorskiĭ, A. I. Boundary properties of finite-difference relations. (Russian. Russian summary) **94k:32012**

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Ebenfelt, Peter Singularities of the solution to a certain Cauchy problem and an application to the Pompeiu problem. **94k:35006**
Nacinovich, Mauro Approximation and extension of Whitney CR forms. **94a:32024**

32Exx Holomorphic convexity

32E05 Holomorphically convex complex spaces, reduction theory

Napier, Terrence Covering spaces of families of compact Riemann surfaces. **94b:32013**
Zhou, Xiang Yu A stronger result than Grauert-Narasimhan's solution to Levi problem. (English summary) **94j:32009**

Items with secondary classifications in 32E05

Golovin, V. D. Cohomologically finite sheaves. (Russian) **94f:32024**

32E10 Stein spaces, Stein manifolds

Dloussky, Georges Colmatage de surfaces holomorphes et classification des surfaces compactes. (English and French summaries) [Filling of holomorphic surfaces and classification of compact surfaces] **94j:32010**
Eliashberg, Yakov Existence and nonexistence of a Stein complex structure on differentiable manifolds. (English summary) **94e:32028**
Lárusson, Finnur Parabolic exhaustions and analytic coverings. **94m:32019**
Lupacciolu, Guido Complements of domains with respect to hulls of outside compact sets. **94h:32015**
Schürmann, Jörg ★ Einbettungen Steinscher Räume in affine Räume minimaler Dimension. (German) [Embeddings of Stein spaces into affine spaces of minimal dimension] **94g:32012**

Items with secondary classifications in 32E10

Alexander, H. Linking and holomorphic hulls. **94g:32013**
Andersson, Mats L_p estimates for the $\overline{\partial}$-equation in analytic polyhedra in Stein manifolds. **94d:32019**
Fels, G. *see* **Huckleberry, Alan T., 94a:32049**
Grabowski, Janusz Lie algebras of vector fields and generalized foliations. (English summary) **94j:17024**
Guillemin, Victor (*with* Stenzel, Matthew B.) Grauert tubes and the homogeneous Monge-Ampère equation. II. **94e:32032**
Heinzner, Peter Equivariant holomorphic extensions of real analytic manifolds. (English and French summaries) **94i:32050**
Hill, C. Denson (*with* Nacinovich, Mauro) The topology of Stein CR manifolds and the Lefschetz theorem. (English and French summaries) **94d:32012**
Huckleberry, Alan T. (*with* Fels, G.) A characterization of K-invariant Stein domains in symmetric embeddings. **94a:32049**
Lupacciolu, Guido Approximation and cohomology vanishing properties of low-dimensional compact sets in a Stein manifold. **94e:32023**
Mihalache, Nicolae Voisinages spéciaux pour les espaces analytiques réels. (English and French summaries) [Special neighborhoods for real analytic spaces] **94a:32011**
— Every finitely presented group is the π_1 of some two-dimensional Stein space. **94m:32012**
Mohan Kumar, N. Affine-like surfaces. (English summary) **94i:14039**
Nacinovich, Mauro *see* **Hill, C. Denson, 94d:32012**
Napier, Terrence Covering spaces of families of compact Riemann surfaces. **94b:32013**
Stenzel, Matthew B. *see* **Guillemin, Victor, 94e:32032**
Vo Van Tan Sur la structure non kählerienne des solides fortement pseudoconvexes. (English and French summaries) [On the non-Kählerian structure of strongly pseudoconvex 3-folds] **94i:32023**
Winkelmann, Jörg Invariant hyperbolic Stein domains. **94e:32052**
Zhong, Tong De A jump formula for the Bochner-Martinelli-Koppelman transform of differential forms on Stein manifolds. (Chinese. English and Chinese summaries) **94h:32005**

32E20 Polynomial convexity

Alexander, H. Quasi-isoperimetric inequality for polynomial hulls. **94k:32013**
— Linking and holomorphic hulls. **94g:32013**
— A disc-hull in $\mathbf{C}^2$. (English summary) **94f:32030**
Andersson, Mats Unique linearly convex support of an analytic functional. **94d:32014**
Gourlay, Boris Enveloppes polynomiales de variétés réelles dans $\mathbf{C}^2$. (English summary) [Polynomial hulls of real manifolds in $\mathbf{C}^2$] **94g:32014**

Items with secondary classifications in 32E20

Davidson, Kenneth R. (*with* Salinas, Norberto) Joint quasitriangularity of essentially unitary pairs. **94j:47029**
Forstnerič, Franc (*with* Rosay, Jean-Pierre) Approximation of biholomorphic mappings by automorphisms of $\mathbf{C}^n$. **94f:32032**
O'Farrell, Anthony G. (*with* de Paepe, P. J.) Approximation on a disk. II. **94b:30046**
de Paepe, P. J. Approximation on a disk. III. (English summary) **94j:30038**
— Approximation on a disk. I. **94b:30045**
— *see also* **O'Farrell, Anthony G., 94b:30046**
Rosay, Jean-Pierre *see* **Forstnerič, Franc, 94f:32032**
Salinas, Norberto *see* **Davidson, Kenneth R., 94j:47029**
Shcherbina, N. V. Traces of pluriharmonic functions on the boundaries of analytic varieties. **94c:32005**

32E25 Algebras of holomorphic functions [see also 30H05, 46J10, 46J15]

Amar, Éric A problem of ideals. (English summary) **94j:32011**
Cascante, Carmen On the peak sets for Lipschitz functions on transverse curves. (Italian summary) **94a:32021**
Cegrell, Urban Peak sets and representing measures in the spectrum of $H^\infty(\Omega)$. **94a:32022**
— On the spectrum of $A(\Omega)$ and $H^\infty(\Omega)$. (English summary) **94f:32031**
Iordan, Andrei Peak sets in domains with weak pseudoconvexity along nonintegral curves. **94a:32023**

Items with secondary classifications in 32E25

Derzhavets, B. A. Systems of convolution equations in convex domains of cone type in $\mathbf{C}^n$. (Russian) **94k:32014**
Langenbruch, Michael (*with* Momm, Siegfried) Complemented submodules in weighted spaces of analytic functions. **94c:46049**
Momm, Siegfried *see* **Langenbruch, Michael, 94c:46049**

32E30 Holomorphic and polynomial approximation, Runge pairs, interpolation

Berenstein, Carlos A. (*with* Kawai, Takahiro; Struppa, Daniele C.) Interpolation theorems in several complex variables and applications. **94h:32016**
Bloom, Thomas Cubature and multivariable Lagrange interpolation. **94e:32029**
— *see also* **Levenberg, Norman, 94i:32016**
Derzhavets, B. A. Systems of convolution equations in convex domains of cone type in $\mathbf{C}^n$. (Russian) **94k:32014**
Forstnerič, Franc (*with* Rosay, Jean-Pierre) Approximation of biholomorphic mappings by automorphisms of $\mathbf{C}^n$. **94f:32032**
Kawai, Takahiro *see* **Berenstein, Carlos A.; et al., 94h:32016**
Levenberg, Norman (*with* Bloom, Thomas) Lagrange interpolation of entire functions in $\mathbf{C}^2$. (English summary) **94i:32016**
Mitreva, Mariya Hermite's interpolation on analytic variety in $\mathbf{C}^n$. (*see* **94m:00023**)
Musin, I. Kh. *see* **Napalkov, V. V., 94m:32020**
Napalkov, V. V. (*with* Musin, I. Kh.) Polynomial approximation in a weighted space of entire functions. (Russian) **94m:32020**
Ortega, Joaquín Ma. Interpolation in Bergman-Sobolev spaces. (Spanish. English summary) **94h:32017**
Papush, D. E. Interpolation from discrete sets in $\mathbf{C}^l$. (Russian) **94e:32030**
— (*with* Russakovskii, A. M.) Interpolation on plane sets in $\mathbf{C}^2$. (English and French summaries) **94k:32015**
Rosay, Jean-Pierre Straightening of arcs. (English summary) **94m:32021**
— *see also* **Forstnerič, Franc, 94f:32032**
Russakovskii, A. M. Approximation by entire functions on unbounded domains in $\mathbf{C}^n$. (English summary) **94h:32018**
— *see also* **Papush, D. E., 94k:32015**
Shcherbina, N. V. Traces of pluriharmonic functions on the boundaries of analytic varieties. **94c:32005**
Siciak, Józef Rapid polynomial approximation on compact sets in $\mathbf{C}^n$. (English summary) **94j:32012**
Struppa, Daniele C. *see* **Berenstein, Carlos A.; et al., 94h:32016**
Thilliez, Vincent Interpolation Gevrey dans les domaines de type fini de $\mathbf{C}^2$. [Gevrey interpolation in domains of finite type in $\mathbf{C}^2$] **94d:32015**

Items with secondary classifications in 32E30

Karepov, O. V. On the holomorphic continuation of functions from subsets of the Shilov boundary of circular strongly star-like domains. (Russian. Russian summary) **94i:32015**
Manne, Per E. Carleman approximation on totally real submanifolds of a complex manifold. **94b:32023**
Shirokov, N. A. A direct theorem in a strictly convex domain in $\mathbf{C}^n$. (Russian. English and Russian summaries) **94j:32006**

32E35 Global boundary behavior of holomorphic functions

Dovbush, P. V. On the existence of admissible and weakly admissible limits of functions of several complex variables. (Russian. Russian summary) **94d:32016**
Hahn, K. T. (*with* Youssfi, El Hassan) Tangential boundary behavior of M-harmonic Besov functions in the unit ball. **94c:32006**
Youssfi, El Hassan *see* **Hahn, K. T., 94c:32006**

Items with secondary classifications in 32E35

Aizenberg, L. A. (*with* Rea, Claudio) The moment condition in a problem with a free boundary for CR-functions. (Russian) **94i:32013**
Arlebrink, Jim Zeros of bounded holomorphic functions in strictly pseudoconvex domains in $\mathbf{C}^2$. (English and French summaries) **94f:32021**
Cascante, Carmen On the peak sets for Lipschitz functions on transverse curves. (Italian summary) **94a:32021**
Dolbeault, Pierre CR analytic varieties with given boundary. **94b:32010**
Rea, Claudio *see* **Aizenberg, L. A., 94i:32013**
Stout, Edgar Lee Removable singularities for the boundary values of holomorphic functions. **94a:32020**

32E99 None of the above, but in this section

Nacinovich, Mauro Approximation and extension of Whitney CR forms. **94a:32024**

Items with secondary classifications in 32E99

Struppa, Daniele C. A new look at the theory of quasianalytic classes. **94h:26026**
Vakarchuk, S. B. Widths of some classes of entire transcendental functions of several complex variables. (Russian) **94e:41039**

32Fxx Geometric convexity, partial differential operators

32F05 Plurisubharmonic functions and generalizations [see also 31C10]

Alessandrini, Lucia (*with* Bassanelli, Giovanni) Plurisubharmonic currents and their extension across analytic subsets. (English summary) **94i:32017**
Baran, Miroslaw Multivariate versions of Bernstein inequality (English summary) **94a:32025**
Bassanelli, Giovanni *see* **Alessandrini, Lucia, 94i:32017**
Berndtsson, Bo Levi-flat surfaces with circular sections. **94e:32031**
Cegrell, Urban (*with* Sadullaev, A. S.) Approximation of plurisubharmonic functions and the Dirichlet problem for the complex Monge-Ampère operator. **94d:32017**
— (*with* Kołodziej, Slawomir) An identity between two capacities. **94h:32019**
Khenkin, G. M. (*with* Shananin, A. A.) $\mathbf{C}^n$-capacity and multidimensional moment problem. **94i:32018**
Kołodziej, Sławomir *see* **Cegrell, Urban, 94h:32019**
Lelong, Pierre Indicatrices et modèles capacitaires des ensembles bornés dans un espace complexe. [Indicators and capacity models for bounded sets in a complex space] **94g:32015**
— Fonctions plurisousharmoniques de croissance logarithmique dans $\mathbf{C}^n$; partie principale, extension du résultant des polynômes. [Plurisubharmonic functions with logarithmic growth in $\mathbf{C}^n$; principal part, extension of the resultant of polynomials] **94g:32016**
— Mesure de Mahler des polynômes et majoration par convexité. (English and French summaries) [Mahler's measure for polynomials and upper bounds under convexity] **94a:32026**
Meise, Reinhold (*with* Taylor, B. A.; Vogt, Dietmar) Indicators of plurisubharmonic functions on algebraic varieties and Kaneko's Phragmén-Lindelöf condition. (English summary) **94d:32018**
Momm, Siegfried A critical growth rate for the pluricomplex Green function. **94i:32019**
Poletsky, Evgeny A. Holomorphic currents. (English summary) **94c:32007**

Ronkin, L. I. On the regularity of growth of a plurisubharmonic function in a space and on subspaces. (Russian) **94k:32016**
Sadullaev, A. S. *see* **Cegrell, Urban, 94d:32017**
Shananin, A. A. *see* **Khenkin, G. M., 94i:32018**
Stoll, Manfred Tangential boundary limits of invariant potentials in the unit ball of $\mathbf{C}^n$. **94h:32020**
Taylor, B. A. *see* **Meise, Reinhold; et al., 94d:32018**
Vogt, Dietmar *see* **Meise, Reinhold; et al., 94d:32018**

Items with secondary classifications in 32F05

Andersson, Mats The H^2 corona problem and $\overline{\partial}_b$ in weakly pseudoconvex domains. **94e:32033**
Avanissian, V. (*with* Mignotte, Maurice) A variant of an inequality of Gel'fond and Mahler. **94j:32002**
Azad, H. (*with* Loeb, J.-J.) Plurisubharmonic functions and Kählerian metrics on complexification of symmetric spaces. **94a:32014**
Bedford, Eric Survey of pluri-potential theory. **94b:32014**
Blel, Mongi Sur le cône tangent à un courant positif fermé. (English and French summaries) [On the tangent cone of a closed positive current] **94m:32015**
Braun, Rüdiger W. Hörmander's Phragmén-Lindelöf principle and irreducible singularities of codimension 1. (Italian summary) **94b:35012**
Khabibullin, B. N. The least plurisuperharmonic majorant, and multipliers of entire functions. I. (Russian) **94d:32002a**
Kiselman, Christer O. Siu's theorem for Lelong's abstract numbers. (Esperanto) (*see* **94k:00019**)
Krivosheev, A. S. (*with* Napalkov, V. V.) Complex analysis and convolution operators. (Russian) **94e:32003**
— Indicators of entire functions and the continuation of solutions of a homogeneous convolution equation. (Russian. Russian summary) **94k:32002**
Loeb, J.-J. *see* **Azad, H., 94a:32014**
Logvinenko, V. N. A separate analyticity theorem and an "edge of the wedge" theorem. (Russian) **94m:32017**
Mignotte, Maurice *see* **Avanissian, V., 94j:32002**
Napalkov, V. V. *see* **Krivosheev, A. S., 94e:32003**
Noell, Alan Peak functions for pseudoconvex domains in $\mathbf{C}^n$. **94a:32027**
Sekerin, A. B. On the reducibility of zero sets of entire functions of several variables. (Russian. English and Russian summaries) **94d:32004**
Stoll, Manfred Composition of potentials with inner functions. (English summary) **94b:31006**

32F07 Complex Monge-Ampère operator

Bedford, Eric Survey of pluri-potential theory. **94b:32014**
Guillemin, Victor The homogeneous Monge-Ampère equation on a pseudoconvex domain. (English summary) **94h:32021**
— (*with* Stenzel, Matthew B.) Grauert tubes and the homogeneous Monge-Ampère equation. II. **94e:32032**
Levenberg, Norman (*with* Okada, Masami) On the Dirichlet problem for the complex Monge-Ampère operator. **94i:32020**
Okada, Masami *see* **Levenberg, Norman, 94i:32020**
Semmes, Stephen Complex Monge-Ampère and symplectic manifolds. **94h:32022**
Stenzel, Matthew B. *see* **Guillemin, Victor, 94e:32032**

Items with secondary classifications in 32F07

Attioui, Abdelali Version réelle de la conjecture de I. P. Radamanov. (English and French summaries) [Real analogue of I. P. Radamanov's conjecture] **94i:32031**
Baran, Miroslaw Multivariate versions of Bernstein inequality. (English summary) **94a:32025**
Cegrell, Urban (*with* Sadullaev, A. S.) Approximation of plurisubharmonic functions and the Dirichlet problem for the complex Monge-Ampère operator. **94d:32017**
Demailly, Jean-Pierre Monge-Ampère operators, Lelong numbers and intersection theory. **94k:32009**
Kobayashi, Ryoichi Ricci-flat Kähler metrics on affine algebraic manifolds and degenerations of Kähler-Einstein $K3$ surfaces. **94c:53082**
Lempert, László Complex structures on the tangent bundle of Riemannian manifolds. **94c:53083**
— Elliptic and hyperbolic tubes. **94c:32016**
Nagai, H. Extremal holomorphic diffusion processes. (English summary) **94f:31007**
Roček, Martin Modified Calabi-Yau manifolds with torsion. (English summary) (*see* **94b:32001**)
Sadullaev, A. S. *see* **Cegrell, Urban, 94d:32017**
Webster, S. M. Holomorphic symplectic normalization of a real function. **94d:32024**

32F10 q-convexity, q-concavity

Adachi, Kenzō (*with* Kajimoto, Hiroshi) $\overline{\partial}$ problem on weakly q-convex domains with nonsmooth boundary in $\mathbf{C}^n$. **94b:32015**
Barlet, Daniel (*with* Silva, Alessandro) Convexité holomorphe intermediaire. (English summary) [Intermediate holomorphic convexity] **94f:32033**
Fischer, Bert (*with* Leiterer, Jürgen) A jump theorem with uniform estimates for $\overline{\partial}_b$-closed forms on real hypersurfaces. **94h:32023**
Kajimoto, Hiroshi *see* **Adachi, Kenzō, 94b:32015**
Laurent-Thiébaut, Christine (*with* Leiterer, Jürgen) Un contre-exemple au phénomène de Hartogs-Bochner pour les formes différentielles. [A counterexample to the Hartogs-Bochner phenomenon for differential forms] **94g:32017**
— (*with* Leiterer, Jürgen) The Andreotti-Vesentini separation theorem with C^k estimates and extension of CR-forms. **94c:32008**
Leiterer, Jürgen *see* **Laurent-Thiébaut, Christine, 94c:32008**; **94g:32017** *and* **Fischer, Bert, 94h:32023**
Matsumoto, Kazuko Pseudoconvex domains of general order and q-convex domains in the complex projective space. **94h:32024**
Silva, Alessandro *see* **Barlet, Daniel, 94f:32033**
Vâjâitu, Viorel On the equivalence of the definitions of q-convex spaces. **94m:32022**
— Invariance of cohomological q-completeness under finite holomorphic surjections. (English summary) **94k:32017**
Vo Van Tan The remaining space problem for 1-convex spaces and its analogue in algebraic geometry. **94g:32018**
Watanabe, Kiyoshi Pseudoconvex domains of general order and vanishing cohomology. **94k:32018**

Items with secondary classifications in 32F10

Demailly, Jean-Pierre Holomorphic Morse inequalities on q-convex manifolds. **94f:32060**
Dloussky, Georges Colmatage de surfaces holomorphes et classification des surfaces compactes. (English and French summaries) [Filling of holomorphic surfaces and classification of compact surfaces] **94j:32010**
Epstein, Charles L. CR-structures on three-dimensional circle bundles. **94a:32034**
Hill, C. Denson (*with* Nacinovich, Mauro) The topology of Stein CR manifolds and the Lefschetz theorem. (English and French summaries) **94d:32012**
Ho, Lop-Hing Hölder estimates for local solutions for $\overline{\partial}$ on a class of nonpseudoconvex domains. (English summary) **94g:32022**
Kytmanov, A. M. (*with* Nikitina, T. N.) Removable singularities of CR-functions given on generic manifolds. (Russian) **94c:32004**
Laurent-Thiébaut, Christine (*with* Leiterer, Jürgen) Théorie d'Andreotti-Grauert pour les hypersurfaces réelles d'une variété analytique complexe. (English and French summaries) [Andreotti-Grauert theory for real hypersurfaces in complex manifolds] **94b:32025**
— Phénomène de Hartogs-Bochner relatif dans une hypersurface réelle 2-concave d'une variété analytique complexe. [Relative Hartogs-Bochner effect in a 2-concave real hypersurface of a complex analytic manifold] **94d:32023**
Leiterer, Jürgen *see* **Laurent-Thiébaut, Christine, 94b:32025**
Marinescu, Gheorghe Morse inequalities for q-positive line bundles over weakly 1-complete manifolds. (English and French summaries) **94f:32062**
Nacinovich, Mauro *see* **Hill, C. Denson, 94d:32012**
Nikitina, T. N. *see* **Kytmanov, A. M., 94c:32004**
Vâjâitu, Viorel Cohomology with compact supports for q-complete spaces. **94b:32009**

32F15 Pseudoconvex domains

Andersson, Mats The H^2 corona problem and $\overline{\partial}_b$ in weakly pseudoconvex domains. **94e:32033**
Backlund, U. (*with* Fällström, A.) A pseudoconvex domain with nonschlicht H^∞-envelope. **94f:32034**
Berteloot, François Un principe de localisation pour les domaines faiblement pseudoconvexes de $\mathbf{C}^2$ dont le groupe d'automorphismes holomorphes n'est pas compact. (French summary) [A localization principle for weakly pseudoconvex domains in $\mathbf{C}^2$ whose group of holomorphic automorphisms is not compact] **94k:32019**
Fällström, A. *see* **Backlund, U., 94f:32034**
Geatti, Laura Bounded strictly pseudoconvex domains of cohomogeneity one. **94k:32020**
Greene, Robert E. (*with* Krantz, Steven G.) Techniques for studying automorphisms of weakly pseudoconvex domains. **94b:32016**
Krantz, Steven G. *see* **Greene, Robert E., 94b:32016**
Noell, Alan Peak functions for pseudoconvex domains in $\mathbf{C}^n$. **94a:32027**

Items with secondary classifications in 32F15

Beatrous, Frank (*with* Li, Song Ying) On the boundedness and compactness of operators of Hankel type. (English summary) **94b:47033**
Boas, Harold P. (*with* Straube, Emil J.) de Rham cohomology of manifolds containing the points of infinite type, and Sobolev estimates for the $\overline{\partial}$-Neumann problem. (English summary) **94g:32019**
Branson, Thomas P. (*with* Ørsted, Bent) Conformal geometry and global invariants. (English summary) **94k:58154**
Chang, Ch'ing Hui (*with* Li, Hsüan Pei) Explicit solutions for some extremal analytic discs of the domain $D = \{z \in \mathbf{C}^n | \sum_1^n |z_j|^{2m_j} < 1,\ m_j \in \mathbf{N}\}$. **94a:32037**
Charpentier, Philippe Sur les valeurs au bord de solutions de l'equation $\overline{\partial} u = f$. [Boundary values of solutions of $\overline{\partial} u = f$] **94f:32029**
Chen, Zhenhua (*with* Ma, Dao Wei) Sharp L^p estimates for the $\overline{\partial}_b$-equation on the boundaries of real ellipsoids in $\mathbf{C}^n$. (English summary) **94m:32023**
Cohn, William S. Weighted Bergman projections and tangential area integrals. (English summary) **94i:32032**
Diederich, Klas (*with* Ohsawa, Takeo) Une caractérisation des points de stricte pseudoconvexité par la métrique de Bergman. (English and French summaries) [A characterization of strictly pseudoconvex points by the Bergman metric] **94h:32042**
— (*with* Herbort, Gregor) Geometric and analytic boundary invariants on pseudoconvex domains. Comparison results. (English summary) **94m:32033**
Eschmeier, Jörg Analytically parametrized complexes of Banach spaces. (English summary) **94a:47002**
— (*with* Putinar, Mihai) Spectra of analytic Toeplitz tuples on Bergman spaces. **94m:47052**
Forstnerič, Franc A reflection principle on strongly pseudoconvex domains with generic corners. **94b:32042**
Fu, Siqi A sharp estimate on the Bergman kernel of a pseudoconvex domain. (English summary) **94m:32035**
Herbort, Gregor *see* **Diederich, Klas, 94m:32033**
Li, Hsüan Pei *see* **Chang, Ch'ing Hui, 94a:32037**
Li, Song Ying *see* **Beatrous, Frank, 94b:47033**
Lieb, Ingo (*with* Range, R. Michael) The $\overline{\partial}$-Neumann kernel for codimension-one forms on strictly pseudoconvex domains. **94d:32021**
Ma, Dao Wei *see* **Chen, Zhenhua, 94m:32023**
Ma, Lan (*with* Michel, Joachim) $\mathscr{C}^{k+a}$-estimates for the $\overline{\partial}$-equation on the Hartogs triangle. **94a:32029**

McNeal, J. D. (*with* Stein, Elias M.) Mapping properties of the Bergman projection on convex domains of finite type. **94k:32037**
Michel, Joachim *see* **Ma, Lan, 94a:32029**
Michels, Ingeborg ★ Integraldarstellung und Regularitätseigenschaften von Projektionsoperatoren. (German) [Integral representation and regularity properties of projection operators] **94a:32003**
Nacinovich, Mauro Approximation and extension of Whitney CR forms. **94a:32024**
Nikolov, N. On the boundary behaviour on the Bergman kernel function near a point of finite type. **94b:32037**
— On the boundary behaviour of invariant metric near a point of finite type. **94b:32038**
— Boundary behaviour of the Carathéodory and Kobayashi volumes near a point of finite type. **94e:32042**
Ohsawa, Takeo *see* **Diederich, Klas, 94h:32042**
Ørsted, Bent *see* **Branson, Thomas P., 94k:58154**
Putinar, Mihai Some problems of spectral analysis on Bergman spaces. **94m:47010**
— *see also* **Eschmeier, Jörg, 94m:47052**
Range, R. Michael *see* **Lieb, Ingo, 94d:32021**
Stein, Elias M. *see* **McNeal, J. D., 94k:32037**
Straube, Emil J. *see* **Boas, Harold P., 94g:32019**
Thilliez, Vincent Interpolation Gevrey dans les domaines de type fini de $\mathbf{C}^2$. [Gevrey interpolation in domains of finite type in $\mathbf{C}^2$] **94d:32015**
Watanabe, Kiyoshi Pseudoconvex domains of general order and vanishing cohomology. **94k:32018**
Zhang, Jian Wen Some characterizations of Bloch functions on strongly pseudoconvex domains. **94a:32007**
Zhou, Xiang Yu A stronger result than Grauert-Narasimhan's solution to Levi problem. (English summary) **94j:32009**

32F20 $\overline{\partial}$- and $\overline{\partial}_b$-Neumann problems [see also 35N15]

Amar, Éric $\overline{\partial}_b$-equation and nonfactorization. **94b:32017**
Andersson, Mats L_p estimates for the $\overline{\partial}$-equation in analytic polyhedra in Stein manifolds. **94d:32019**
Aragona, Jorge Some results for the $\overline{\partial}$ operator on generalized differential forms. **94k:32021**
Belanger, Jay Hölder estimates for $\overline{\partial}$ in $\mathbf{C}^2$. **94h:32025**
Bell, Steven R. Unique continuation theorems for the $\overline{\partial}$-operator and applications. (English summary) **94d:32020**
Berhanu, S. (*with* Chanillo, Sagun) Hölder and L^p estimates for a local solution of $\overline{\partial}_b$ at top degree. (English summary) **94f:32035**
Boas, Harold P. (*with* Straube, Emil J.) de Rham cohomology of manifolds containing the points of infinite type, and Sobolev estimates for the $\overline{\partial}$-Neumann problem. (English summary) **94g:32019**
Chanillo, Sagun *see* **Berhanu, S., 94f:32035**
Chaumat, Jacques (*with* Chollet, Anne-Marie) Noyaux pour résoudre l'equation $\overline{\partial}$ dans des classes ultradifférentiables sur des compacts irreguliérs de $\mathbf{C}^n$. [Kernels for solving the $\overline{\partial}$ equation in ultradifferentiability classes on irregular compact sets in $\mathbf{C}^n$] **94b:32018**
Chen, So-Chin Real analytic regularity of the Bergman and Szegő projections on decoupled domains. **94g:32020**
Chen, Zhenhua Local real analytic boundary regularity of the $\overline{\partial}$-equation on convex domains. **94g:32021**
— (*with* Ma, Dao Wei) Sharp L^p estimates for the $\overline{\partial}_b$-equation on the boundaries of real ellipsoids in $\mathbf{C}^n$. (English summary) **94m:32023**
Chollet, Anne-Marie Solution de l'équation $\overline{\partial}u = f$ dans certaines classes de domaines irréguliers. [Solution of $\overline{\partial}u = f$ in certain classes of nonregular domains] **94f:32036**
— *see also* **Chaumat, Jacques, 94b:32018**
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Bugajska, Krystyna Some internal symmetries of a world sheet. **94e:81270**

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Morava, Jack Topological gravity and algebraic topology. **94h:55008**

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Natanzon, S. M. Moduli spaces of Riemann $N = 1$ and $N = 2$ supersurfaces. (English summary) **94f:32017**

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Mapping Class Groups and Moduli Spaces of Riemann Surfaces ★ Mapping class groups and moduli spaces of Riemann surfaces. **94c:14022**

32G20 Period matrices, variation of Hodge structure; degenerations [see also 14D05, 14D07, 14K30]

Aspinwall, Paul S. (*with* Greene, Brian R.; Morrison, David R.) Multiple mirror manifolds and topology change in string theory. (English summary) **94g:32031**
Ceresole, A. (*with* D'Auria, R.; Ferrara, S.; Lerche, W.; Louis, J.) Picard-Fuchs equations and special geometry. (English summary) **94f:32046**
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Ferrara, S. *see* **Ceresole, A.; et al., 94f:32046**
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González Díez, Gabino Theta functions on the boundary of moduli space. (English summary) **94c:32013**
Greene, Brian R. *see* **Aspinwall, Paul S.; et al., 94g:32031**
Klemm, Albrecht (*with* Theisen, Stefan) Considerations of one-modulus Calabi-Yau compactifications: Picard-Fuchs equations, Kähler potentials and mirror maps. (English summary) **94d:32029**
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Morrison, David R. Picard-Fuchs equations and mirror maps for hypersurfaces. (English summary) **94b:32035**
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Candelas, Philip (*with* de la Ossa, Xenia C.; Green, Paul S.; Parkes, Linda) A pair of Calabi-Yau manifolds as an exactly soluble superconformal theory. (English summary) (*see* **94b:32001**)
Debarre, Olivier Le lieu des variétés abéliennes dont le diviseur thêta est singulier a deux composantes. [The locus of abelian varieties whose theta divisor is singular has two components] **94a:14045**
Eguchi, Tohru (*with* Yamada, Yasuhiko; Yang, Sung-Kil) Topological field theories and the period integrals. (English summary) **94k:81255**
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Greene, Brian R. (*with* Plesser, M. Ronen; Yüan, Hsi Shih) New constructions of mirror manifolds: probing moduli space far from Fermat points. (English summary) **94c:32018**
— (*with* Plesser, M. Ronen) An introduction to mirror manifolds. (English summary) (*see* **94b:32001**)
Hübsch, Tristan ★ Calabi-Yau manifolds. **94b:32046**
Ivinskis, Kęstutis Das infinitesimale Torelli Problem für einfache Überlagerungen von hohem Grad. (English summary) [The infinitesimal Torelli problem for simple coverings of high degree] **94d:14010**
Karpishpan, Yakov On higher-order differentials of the period map. **94j:14012**
Lange, Herbert (*with* Birkenhake, Christina) ★ Complex abelian varieties. **94j:14001**
Matsumoto, Keiji Theta functions on the bounded symmetric domain of type $I_{2,2}$ and the period map of a 4-parameter family of $K3$ surfaces. **94m:32049**
— (*with* Sasaki, Takeshi; Yoshida, Masaaki) Recent progress of Gauss-Schwarz theory and related geometric structures. **94k:32033**
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Nag, Subhashis Riemann surfaces and their Jacobians: a toolkit. (English summary) **94k:14020**
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Sasaki, Takeshi (*with* Uehara, Tomoyuki) Power series solutions around a singular point of the system of hypergeometric differential equations of type (3, 6) by use of special values of ${}_3F_2$. **94h:33004**
— *see also* **Matsumoto, Keiji; et al., 94k:32033**
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32G34 Moduli and deformations for ordinary differential equations [see also 34A20]

Beauville, Arnaud Monodromie des systèmes différentiels linéaires à pôles simples sur la sphère de Riemann (d'après A. Bolibruch). (French summary) [Monodromy of linear differential systems with simple poles on the Riemann sphere (after A. Bolibrukh)] **94j:32015**
Dunkl, Charles F. Differential-difference operators and monodromy representations of Hecke algebras. (English summary) **94h:32040**
Elizarov, P. M. Tangents to moduli maps. **94d:32032**
Il'yashenko, Yu. S. Nonlinear Stokes phenomena. **94d:32031**
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Reshetikhin, N. Yu. The Knizhnik-Zamolodchikov system as a deformation of the isomonodromy problem. (English summary) **94m:32031**
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Ètingof, P. I. Representations of affine Lie algebras, elliptic r-matrix systems, and special functions. (English summary) **94m:17025**
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— (*with* Graev, M. I.; Retakh, V. S.) General hypergeometric systems of equations and series of hypergeometric type. (Russian. Russian summary) **94h:33005**
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32G81 Applications to physics

Cadoni, Mariano String quantum symmetries and the SL(2, Z) group. (English summary) **94i:32026**
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— (*with* Greene, Brian R.; Morrison, David R.) Multiple mirror manifolds and topology change in string theory. (English summary) **94g:32031**
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— (*with* Love, Alex; Sabra, W. A.) Yukawa couplings involving excited twisted sector states for $Z_M \times Z_N$ orbifolds. (English summary) **94f:81181**
— (*with* Love, Alex; Sabra, W. A.; Thomas, Steven) String loop threshold corrections for Z_N Coxeter orbifolds. (English summary) **94k:81238**
— (*with* Love, Alex; Sabra, W. A.; Thomas, Steven) Duality symmetries in orbifold models. (English summary) **94k:81237**
Berglund, Per (*with* Hübsch, Tristan) A generalized construction of mirror manifolds. (English summary) **94c:14035**

— (*with* Hübsch, Tristan) A generalized construction of mirror manifolds. (English summary) **94k:14031**
de Boer, Jan (*with* Goeree, Jacob) Covariant W gravity and its moduli space from gauge theory. (English summary) **94g:81162**
Bonora, L. (*with* Toppan, F.) Global chiral vertex operators on Riemann surfaces. (English summary) **94d:81167**
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— Teichmüller spaces of string theory. **94h:32034**
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Dijkgraaf, Robbert Intersection theory, integrable hierarchies and topological field theory. **94c:32010**
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Font, Anamaría Periods and duality symmetries in Calabi-Yau compactifications. (English summary) **94d:32030**
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— *see also* **Aspinwall, Paul S.; et al., 94g:32031**
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— (*with* Yau, Shing-Tung) An SL(2, C) action on certain Jacobian rings and the mirror map. (English summary) (*see* **94b:32001**)
— (*with* Yau, Shing-Tung) An SL(2, C) action on chiral rings and the mirror map. (English summary) **94j:32021**
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Klemm, Albrecht (*with* Theisen, Stefan) Considerations of one-modulus Calabi-Yau compactifications: Picard-Fuchs equations, Kähler potentials and mirror maps. (English summary) **94d:32029**
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Konisi, Gaku (*with* Saito, Takesi; Takahasi, Wataru) Construction of super Schwarzian connection in conformal field theories on higher-genus Riemann surfaces. (English summary) **94f:81153**
Kreuzer, Maximilian (*with* Skarke, Harald) No mirror symmetry in Landau-Ginzburg spectra! (English summary) **94b:32049**
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Novikov, S. P. Riemann surfaces, operator fields, strings—analogues of the Fourier-Laurent bases. **94f:81155**
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Schimmrigk, Rolf Critical superstring vacua from noncritical manifolds: a novel framework for string compactification and mirror symmetry. (English summary) **94f:81131**
Shen, Jian Min (*with* Sheng, Zheng Mao; Li, You Quan) Uniformization of Riemann surfaces and the theory of the Liouville field. (Chinese. English and Chinese summaries) **94d:81205**
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Stora, Raymond Local holomorphic factorization for free conformal fields. (English summary) **94d:81207**
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Vafa, Cumrun Topological mirrors and quantum rings. (English summary) **94c:81193**
Witten, Edward Mirror manifolds and topological field theory. (English summary) **94c:81194**
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Yüan, Hsi Shih *see* **Greene, Brian R.; et al., 94c:32018**
Zinov'ev, Yu. M. Partially U(1) compactified scalar massless field on the compact Riemann surface and the bosonic string amplitudes. (English summary) **94e:81261**
Zucchini, Roberto A Polyakov action on Riemann surfaces. II. (English summary) **94e:81319**
Zwiebach, Barton Closed string field theory: quantum action and the Batalin-Vilkovisky master equation. (English summary) **94i:81137**

32Hxx Holomorphic mappings and correspondences

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Kyoto ★ International Symposium "Holomorphic Mappings, Diophantine Geometry and Related Topics". **94f:32004**
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32H02 Holomorphic mappings, (holomorphic) embeddings and related questions

Baouendi, M. S. (*with* Rothschild, Linda Preiss) Images of real hypersurfaces under holomorphic mappings. **94i:32028**
Barnard, Roger W. (*with* Pearce, Kent; Varga, Richard S.) An application from partial sums of e^z to a problem in several complex variables. (English summary) **94e:32037**
— (*with* FitzGerald, Carl H.; Gong, Sheng) A distortion theorem for biholomorphic mappings in $\mathbf{C}^2$. (English summary) **94k:32034**
Burns, Daniel M. (*with* Krantz, Steven G.) Rigidity of holomorphic mappings and a new Schwarz lemma at the boundary. (English summary) **94j:32016**
Charzyński, Zygmunt (*with* Skibiński, Przemysław) Pseudoorthogonality of powers of the coordinates of a holomorphic mapping in several variables with the constant Jacobian. (English and Polish summaries) **94m:32032**
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Gong, Sheng Biholomorphic mappings in several complex variables. **94a:32035**
— (*with* Wang, Shi Kun; Yu, Qi Huang) Biholomorphic convex mappings of ball in $\mathbf{C}^n$. (English summary) **94i:32029**
— *see also* **Barnard, Roger W.; et al., 94k:32034**
Kanemaru, Tadayoshi A distortion theorem in several complex variables. **94e:32038**
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Liu, Tai Shun Biholomorphic mappings in $\mathbf{C}^n$ and weak-star sequence generators of H^∞. (Chinese. English and Chinese summaries) **94h:32041**
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Rudin, Walter Preservation of level sets by automorphisms of $\mathbf{C}^n$. (English summary) **94i:32030**
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Sukhov, A. B. On the mapping problem for quadric Cauchy-Riemann manifolds. (English summary) **94e:32039**
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Winkelmann, Jörg The Oka-principle for mappings between Riemann surfaces. **94e:32040**
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Ahern, Patrick (*with* Rudin, Walter) Smoothness at infinity. (English summary) **94m:32010**
Bell, Steven R. Algebraic mappings of circular domains in $\mathbf{C}^n$. **94a:32040**
Charzyński, Zygmunt (*with* Skibiński, Przemysław) Pseudo-orthogonality of powers of the coordinates of a holomorphic mapping in two variables with the constant Jacobian. (English summary) **94h:32001**
Chen, So-Chin On the Darboux-Picard theorem in $\mathbf{C}^n$. **94f:32051**
Dor, Avner Approximation by proper holomorphic maps into convex domains. **94b:32041**
— Continuous proper holomorphic maps into bounded domains. **94a:32041**
Duchamp, Tom (*with* Forstnerič, Franc) Intersections of totally real and holomorphic disks. (English summary) **94k:32025**
Forstnerič, Franc (*with* Rosay, Jean-Pierre) Approximation of biholomorphic mappings by automorphisms of $\mathbf{C}^n$. **94f:32032**
— *see also* **Duchamp, Tom, 94k:32025**
Gong, Sheng (*with* Wang, Shi Kun; Yu, Qi Huang) The growth theorem for biholomorphic mappings in several complex variables. (English summary) **94f:32052**
— *see also* **Yan, Zhi Min, 94h:32053**
Gudmundsson, Sigmundur (*with* Sigurdsson, Ragnar) A note on the classification of holomorphic harmonic morphisms. (English summary) **94i:58043**
Hatziafratis, Telemachos On the multiplicity of holomorphic maps and a residue formula. (English summary) **94e:32011**

Huang, Xiaojun (*with* Krantz, Steven G.) A unique continuation problem for holomorphic mappings. (English summary) **94b:32022**
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Patrizio, Giorgio Some remarks about the covering properties of holomorphic maps between domains in $\mathbf{C}^n$. (Italian summary) **94b:32039**
Pushnikov, A. Yu. On the holomorphy of CR-mappings of real analytic hypersurfaces. (Russian) **94m:32039**
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Tsai, I Hsun Rigidity of holomorphic maps from compact Hermitian symmetric spaces to smooth projective varieties. **94h:32052**
Tung, Chia Chi On the degree theory of holomorphic mappings. (English summary) **94e:32018**
Valli, Giorgio Holomorphic maps from compact manifolds into loop groups as Blaschke products. (English summary) **94i:58049**
Wang, Shi Kun *see* **Gong, Sheng; et al., 94f:32052**
Watanabe, Chikara (*with* Nakamura, Shigeru) On some examples of hyperplane-preserving holomorphic mappings which have a regular hyperplane. **94j:32019**
Yan, Zhi Min (*with* Gong, Sheng) Bloch constant of holomorphic mappings on bounded symmetric domains. (English summary) **94h:32053**
— A norm-preserving H^∞ extension problem. (English summary) **94j:32028**
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32H04 Meromorphic mappings

Items with secondary classifications in 32H04

Hall, Peter Uniqueness theorems for parametrized algebraic curves. **94d:32035**
Hu, Pei Chu Holomorphic mappings between spaces of different dimensions. I. **94k:32043**

32H10 Bergman kernel function, representative domains

Attioui, Abdelali Version réelle de la conjecture de I. P. Radamanov. (English and French summaries) [Real analogue of I. P. Radamanov's conjecture] **94i:32031**
Chang, Der-Chen (*with* Grellier, Sandrine) Régularité de la projection de Szegő dans les domaines découplés de type fini de $\mathbf{C}^n$. (English and French summaries) [Regularity properties of the Szegő projection on decoupled domains of finite type in $\mathbf{C}^n$] **94a:32036**
Cohn, William S. Weighted Bergman projections and tangential area integrals. (English summary) **94i:32032**
Diederich, Klas (*with* Herbort, Gregor) Geometric and analytic boundary invariants on pseudoconvex domains. Comparison results. (English summary) **94m:32033**
Dragomir, Sorin On weighted Bergman kernels of bounded domains. (English summary) **94m:32034**
Fu, Siqi A sharp estimate on the Bergman kernel of a pseudoconvex domain. (English summary) **94m:32035**
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Herbort, Gregor *see* **Diederich, Klas, 94m:32033**
Hirachi, Kengo (*with* Komatsu, Gen; Nakazawa, Noriyuki) Two methods of determining local invariants in the Szegő kernel. **94f:32047**
— The second variation of the Bergman kernel of ellipsoids. **94k:32036**
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Kuranishi, Masatake The frame bundles of CR structures and the Bergman kernel. II. **94b:32036**
Lin, Ping² The Bergman kernel function and Aut(D) for the domain $D = \{z = (z_1, z_2) \in \mathbf{C}^2 : |z_1|^4 + |z_2| < 1\}$. (Chinese. English and Chinese summaries) **94j:32017**
McNeal, J. D. (*with* Stein, Elias M.) Mapping properties of the Bergman projection on convex domains of finite type. **94k:32037**
Nakazawa, Noriyuki *see* **Hirachi, Kengo; et al., 94f:32047**
Nikolov, N. On the boundary behaviour on the Bergman kernel function near a point of finite type. **94b:32037**
Stein, Elias M. *see* **McNeal, J. D., 94k:32037**
Wang, Tian Mu Holomorphic sectional curvature of a class of Reinhardt domains at the origin. (Chinese) **94g:32032**
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— A remark on representative domains. (Chinese. Chinese summary) **94i:32033**

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Bell, Steven R. Unique continuation theorems for the $\overline{\partial}$-operator and applications. (English summary) **94d:32020**
Chen, So-Chin Real analytic regularity of the Bergman and Szegő projections on decoupled domains. **94g:32020**
Choe, Boo Rim (*with* Lee, Young Joo) Pluriharmonic symbols of commuting Toeplitz operators. **94i:47041**
Herbort, Gregor On the invariant differential metrics near pseudoconvex boundary points where the Levi form has corank one. **94e:32041**
Kanemaru, Tadayoshi A distortion theorem in several complex variables. **94e:32038**
Kang, Hyeonbae Automorphism groups on certain Reinhardt domains. **94i:32051**
Lee, Young Joo *see* **Choe, Boo Rim, 94i:47041**
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Nikolov, N. On the boundary behaviour of invariant metric near a point of finite type. **94b:32038**
Peetre, Jaak A reproducing formula for vector valued functions over a Cartan domain. (English, Russian and Estonian summaries) **94k:32003**
Winkelmann, Jörg Invariant hyperbolic Stein domains. **94e:32052**
Xu, Yi Chao Some results on the homogeneous Siegel domains in $\mathbf{C}^n$. **94a:32050**

32H15 Invariant metrics and pseudodistances

Abate, Marco The complex geodesics of noncompact Hermitian symmetric spaces. (English summary) **94m:32036**
Aladro, Gerardo Localization of the Kobayashi distance. **94k:32038**
Belkhchicha, Larbi Caractérisation des isomorphismes analytiques sur la boule-unité de $\mathbf{C}^n$ pour une norme. [Characterization of analytic isomorphisms on the unit ball in $\mathbf{C}^n$ for a norm] **94m:32037**
Chang, Ch'ing Hui (*with* Li, Hsüan Pei) Explicit solutions for some extremal analytic discs of the domain $D = \{z \in \mathbf{C}^n : \sum_1^n |z_j|^{2m_j} < 1,\ m_j \in \mathbf{N}\}$. **94a:32037**
Diederich, Klas (*with* Ohsawa, Takeo) Une caractérisation des points de stricte pseudoconvexité par la métrique de Bergman. (English and French summaries) [A characterization of strictly pseudoconvex points by the Bergman metric] **94h:32042**
Do Duc Thai (*with* Nguyen Le Huong) A note on the Kobayashi pseudodistance and the tautness of holomorphic fiber bundles. (English summary) **94d:32033**
Herbort, Gregor On the invariant differential metrics near pseudoconvex boundary points where the Levi form has corank one. **94e:32041**
Jarnicki, Marek (*with* Pflug, Peter) ★ Invariant distances and metrics in complex analysis. **94k:32039**
— (*with* Pflug, Peter) The inner Carathéodory distance for the annulus. II. **94f:32049**
Kay, Leslie D. On the Kobayashi metric for perturbations of the ball. **94c:32015**
Kobayashi, Shoshichi Relative intrinsic distance and hyperbolic imbedding. **94k:32040**
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Schwarz, Binyamin Carathéodory balls and norm balls of the domain $H = \{(z_1, z_2) \in \mathbf{C}^2 : |z_1| + |z_2| < 1\}$. (English summary) **94m:32038**
— The Schwarz-Pick theorem for the unit disk of the projective matrix space. (English summary) **94d:32034**
Venturini, Sergio Intrinsic metrics on complex manifolds. (English summary) **94f:32050**
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Wu, Hung Hsi Old and new invariant metrics on complex manifolds. **94a:32038**
Zwonek, Włodzimierz A note on γ-isometries. (English summary) **94e:32044**

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Krantz, Steven G. *see* **Burns, Daniel M., 94j:32016**
Suciu, Ion The Kobayashi distance between two contractions. (English summary) **94j:47025**
Velling, John A. Degeneration of quasicircles: inner and outer radii of Teichmüller spaces. (English summary) **94j:30020**
Yin, Wei Ping Curvatures on a class of Reinhardt domains. (English summary) **94f:32048**
Zhu, Ke He Distances and Banach spaces of holomorphic functions on complex domains. **94k:46050**

32H20 Hyperbolic complex manifolds

Babets, V. A. Pseudoforms with negative curvature on $\mathbf{CP}_n$. II. (Russian. Russian summary) **94i:32035**
Kobayashi, Shoshichi Some problems in hyperbolic complex analysis. **94e:32045**
Wong, Pit-Mann Recent results in hyperbolic geometry and Diophantine geometry. **94k:32042**

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Bandman, T. Topological invariants of variety and the number of its holomorphic mappings. **94k:14010**
Goldman, William M. (*with* Parker, John R.) Dirichlet polyhedra for dihedral groups acting on complex hyperbolic space. (English summary) **94d:32044**
Kobayashi, Shoshichi Relative intrinsic distance and hyperbolic imbedding. **94k:32040**
Nakamura, Hiroaki Galois rigidity of algebraic mappings into some hyperbolic varieties. **94f:14011**
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Wu, Hung Hsi Old and new invariant metrics on complex manifolds. **94a:32038**
Zaidenberg, M. G. An analytic cancellation theorem and exotic algebraic structures on $\mathbf{C}^n$, $n \geq 3$. **94k:32045**

32H25 Picard-type theorems and generalizations {For function-theoretic properties, see 32A22.}

Chen, So-Chin On the Darboux-Picard theorem in $\mathbf{C}^n$. **94f:32051**
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Hu, Pei Chu Holomorphic mappings between spaces of different dimensions. I. **94k:32043**
— (*with* Yang, Chung-Chun) Pseudo volume forms and their applications to holomorphic mappings. **94h:32043**
Stoll, Wilhelm O'Shea's defect relation for slowly moving targets. **94i:32036**
Takegoshi, Kenshô A Liouville theorem on an analytic space. **94b:32040**
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Gruman, Lawrence L'image d'une application holomorphe. (English and French summaries) [The image of a holomorphic map] **94a:32039**
Luo, Tie On the horizontal base locus of multiples of tautological sheaves of projectivised cotangent bundles. II. **94m:14054**
Mo, Xiaokang Value distribution of the Gauss map and the total curvature of complete minimal surface in $\mathbf{R}^m$. (English summary) **94m:53009**

32H30 Value distribution theory in higher dimensions {For function-theoretic properties, see 32A22.}

Gong, Sheng (*with* Wang, Shi Kun; Yu, Qi Huang) The growth theorem for biholomorphic mappings in several complex variables. (English summary) **94f:32052**
Gruman, Lawrence L'image d'une application holomorphe. (English and French summaries) [The image of a holomorphic map] **94a:32039**
Ji, Shanyu (*with* Ru, Min) Global Lojasiewicz inequality, defect relation and applications of holomorphic curve theory. **94g:32033**
Kristalinskiĭ, R. Kh. On an estimate for the sum of defects of meromorphic mappings of $\mathbf{C}^n$ into $\mathbf{P}^n$. (Russian. Russian summary) (*see* **94c:00021**)
Mori, Seiki Order of a holomorphic curve with maximal deficiency sum for moving targets. **94k:32044**
Noguchi, Junjiro Some problems in value distribution and hyperbolic manifolds. **94i:32037**
Ru, Min (*with* Stoll, Wilhelm) The Nevanlinna conjecture for moving targets. (English summary) **94d:32036**
— *see also* **Ji, Shanyu, 94g:32033**
Shirosaki, Manabu Value distribution for moving targets. **94i:32038**
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Wang, Shi Kun *see* **Gong, Sheng; et al., 94f:32052**
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Stoll, Wilhelm O'Shea's defect relation for slowly moving targets. **94i:32036**
Wong, Pit-Mann Diophantine approximation and the theory of holomorphic curves. **94m:11083**

32H35 Proper mappings, finiteness theorems

Bell, Steven R. Algebraic mappings of circular domains in $\mathbf{C}^n$. **94a:32040**
D'Angelo, John P. The structure of proper rational holomorphic maps between balls. **94h:32045**
Dini, Gilberto (*with* Primicerio, Angela Selvaggi) Proper holomorphic mappings and Reinhardt domains. **94f:32053**
Dor, Avner Approximation by proper holomorphic maps into convex domains. **94b:32041**
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Forstnerič, Franc Proper holomorphic mappings: a survey. **94a:32042**
Huang, Xiaojun (*with* Pan, Yi Fei) Proper holomorphic self-mappings of Hartogs domains in $\mathbf{C}^2$. **94f:32054**
Landucci, Mario Proper holomorphic self-mappings between bounded domains in $\mathbf{C}^n$. (Italian) **94e:32046**
— (*with* Patrizio, Giorgio) Proper holomorphic maps of Reinhardt domains which have a disk in their boundary. (English and French summaries) **94j:32018**
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Primicerio, Angela Selvaggi *see* **Dini, Gilberto, 94f:32053**
Rosay, Jean-Pierre (*with* Rudin, Walter) Holomorphic embeddings of **C** in $\mathbf{C}^n$. **94c:32017**
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Watanabe, Chikara (*with* Nakamura, Shigeru) On some examples of hyperplane-preserving holomorphic mappings which have a regular hyperplane. **94j:32019**

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Bandman, T. Topological invariants of variety and the number of its holomorphic mappings. **94k:14010**
D'Angelo, John P. ★ Several complex variables and the geometry of real hypersurfaces. **94i:32022**
Pushnikov, A. Yu. On the holomorphy of CR-mappings of real analytic hypersurfaces. (Russian) **94m:32039**

32H40 Boundary regularity of holomorphic maps

Diederich, Klas (*with* Pinchuk, S. I.) The inverse of a CR-homeomorphism is CR. (English summary) **94g:32034**
Forstnerič, Franc A reflection principle on strongly pseudoconvex domains with generic corners. **94b:32042**
Pinchuk, S. I. *see* **Diederich, Klas, 94g:32034**
Pushnikov, A. Yu. On the holomorphy of CR-mappings of real analytic hypersurfaces. (Russian) **94m:32039**
Sukhov, A. B. Holomorphic mappings of domains of "wedge" type. (Russian. Russian summary) **94e:32047**

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Chang, Der-Chen (*with* Grellier, Sandrine) Régularité de la projection de Szegő dans les domaines découplés de type fini de $\mathbf{C}^n$. (English and French summaries) [Regularity properties of the Szegő projection on decoupled domains of finite type in $\mathbf{C}^n$] **94a:32036**
Forstnerič, Franc Proper holomorphic mappings: a survey. **94a:32042**
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32H50 Iteration problems

Abate, Marco Iterates and semigroups on taut manifolds. (English summary) **94f:32055**
— Iteration theory on weakly convex domains. (English summary) **94h:32046**
Arnol'd, V. I. Bounds for Milnor numbers of intersections in holomorphic dynamical systems. **94i:32039**
Bedford, Eric (*with* Lyubich, M. Yu.; Smillie, John) Polynomial diffeomorphisms of $\mathbf{C}^2$. IV. The measure of maximal entropy and laminar currents. **94g:32035**
— (*with* Lyubich, M. Yu.; Smillie, John) Distribution of periodic points of polynomial diffeomorphisms of $\mathbf{C}^2$. **94i:32040**
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Friedland, Shmuel Entropy of rational self-maps of projective varieties. **94e:32048**
Hriljac, Paul Analytic dynamics in some pseudoconvex domains. (English summary) **94b:32043**
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Wu, He Complex stable manifolds of holomorphic diffeomorphisms. (English summary) **94m:32040**

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Kim, Kang Tae On a boundary point repelling automorphism orbits. **94m:32048**

32H99 None of the above, but in this section

Dietmair, T. The Mergelyan-Bishop theorem in the case of mappings into homogeneous manifolds. II. Proof of the theorem and application. **94m:32041**
Lin, Qing Holomorphic curves in $\mathrm{Gr}(2, \mathbf{C}^4)$ and their curvatures. (English summary) **94b:32044**

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Zhuravlëv, I. V. Homeomorphic solution of a multidimensional analogue of the Beltrami equation. (Russian. English and Russian summaries) **94k:32024**

32Jxx Compact analytic spaces {For Riemann surfaces, see 14Hxx, 30Fxx; for algebraic theory, see 14Jxx.}

32J05 Compactification of analytic spaces

Kosarew, Siegmund (*with* Peternell, Thomas) Addendum to the paper: "Formal cohomology, analytic cohomology and nonalgebraic manifolds" [Compositio Math. **74** (1990), no. 3, 299–325; MR 91g:32035]. **94b:32045**
Peternell, Thomas Corrigendum: "Compactifications of $\mathbf{C}^3$. II" [Math. Ann. **283** (1989), no. 1, 121–137; MR 90b:32052]. **94j:32020**
— *see also* **Kosarew, Siegmund, 94b:32045**
Zaidenberg, M. G. An analytic cancellation theorem and exotic algebraic structures on $\mathbf{C}^n$, $n \geq 3$. **94k:32045**

Items with secondary classifications in 32J05

Furushima, Mikio The complete classification of compactifications of $\mathbf{C}^3$ which are projective manifolds with the second Betti number one. **94k:14035**

32J15 Compact surfaces

Blache, Raimund Positivity results for Euler characteristics of singular surfaces. (English summary) **94k:32046**
Brînzănescu, Vasile Néron-Severi group for nonalgebraic elliptic surfaces. I. Elliptic bundle case. **94g:32036**
— The Picard group of a primary Kodaira surface. **94f:32056**

Fujiki, Akira (*with* Kobayashi, Ryoichi; Lu, Steven) On the fundamental group of certain open normal surfaces. **94m:32042**
González-López, Artemio (*with* Hurtubise, Jacques C.; Kamran, Niky; Olver, Peter J.) Quantification de la cohomologie des algèbres de Lie de champs de vecteurs et fibrés en droites sur des surfaces complexes compactes. (English and French summaries) [Quantization of the cohomology of Lie algebras of vector fields and line bundles over compact complex surfaces] **94h:32047**
Horst, Camilla A class of compact complex surfaces with negative tangent bundle. **94f:32057**
Hurtubise, Jacques C. *see* **González-López, Artemio; et al., 94h:32047**
Johnson, F. E. A. A rational invariant for certain infinite discrete groups. **94k:32047**
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Mabuchi, Toshiki (*with* Mukai, Shigeru) Stability and Einstein-Kähler metric of a quartic del Pezzo surface. **94m:32043**
Mukai, Shigeru *see* **Mabuchi, Toshiki, 94m:32043**
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Dloussky, Georges Colmatage de surfaces holomorphes et classification des surfaces compactes. (English and French summaries) [Filling of holomorphic surfaces and classification of compact surfaces] **94j:32010**
Kobayashi, Mahito Stable mappings with trivial monodromies and application to inactive log-transformations. **94m:57065**
LeBrun, Claude (*with* Singer, Michael A.) Existence and deformation theory for scalar-flat Kähler metrics on compact complex surfaces. **94e:53070**
Loose, Frank Meromorphic Hamiltonian systems on complex surfaces. (English summary) **94j:58084**
Mukai, Shigeru Polarized $K3$ surfaces of genus 18 and 20. **94a:14039**
Pontecorvo, Massimiliano Uniformization of conformally flat Hermitian surfaces. (English summary) **94k:32052**
Singer, Michael A. *see* **LeBrun, Claude, 94e:53070**

32J17 Compact 3-folds

Candelas, Philip (*with* Derrick, E.; Parkes, Linda) Generalized Calabi-Yau manifolds and the mirror of a rigid manifold. (English summary) **94i:32041**
Derrick, E. *see* **Candelas, Philip; et al., 94i:32041**
Greene, Brian R. (*with* Plesser, M. Ronen; Yüan, Hsi Shih) New constructions of mirror manifolds: probing moduli space far from Fermat points. (English summary) **94c:32018**
— (*with* Plesser, M. Ronen) An introduction to mirror manifolds. (English summary) (*see* **94b:32001**)
Hübsch, Tristan ★ Calabi-Yau manifolds. **94b:32046**
— (*with* Yau, Shing-Tung) An $SL(2,\mathbf{C})$ action on chiral rings and the mirror map. (English summary) **94j:32021**
Kreuzer, Maximilian (*with* Skarke, Harald) All abelian symmetries of Landau-Ginzburg potentials. (English summary) **94i:32042**
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Namikawa, Yoshinori Elliptic 3-folds and non-Kähler 3-folds. **94b:32047**
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— (*with* Hübsch, Tristan) A generalized construction of mirror manifolds. (English summary) **94k:14031**
— Dimensionally reduced Landau-Ginzburg orbifolds with discrete torsion. (English summary) **94k:81205**
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32J18 Compact n-folds ($n \geq 4$)

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32J25 Transcendental methods of algebraic geometry [see also 14C30]

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32J27 Compact Kähler manifolds: generalizations, classification

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32J81 Applications to physics

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— (*with* Theisen, Stefan) Recent efforts in the computation of string couplings. (English and Russian summaries) **94j:81194**
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32J99 None of the above, but in this section

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Lüst, Dieter Duality invariant effective string actions and automorphic functions for (2, 2) string compactifications. (English summary) (*see* **94b:81006**)

32Kxx Generalizations of analytic spaces (should also be assigned at least one other classification number in this section)

32K05 Banach analytic spaces [see also 58Bxx]

Vigué, Jean-Pierre Sur la linéarisation des transformations analytiques d'un domaine borné. [Linearization of analytic transformations of a bounded domain] **94f:32058**

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32K15 Differentiable functions on analytic spaces, differentiable spaces [see also 58C25]

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32K99 None of the above, but in this section

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32Lxx Holomorphic fiber spaces [see also 55Rxx]

32L05 Holomorphic fiber bundles and generalizations

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Bismut, Jean-Michel Métriques de Quillen équivariantes et plongements complexes. (English and French summaries) [Equivariant Quillen metrics and complex embeddings] **94g:58245**

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Karshon, Yael (*with* Tolman, Susan) The moment map and line bundles over presymplectic toric manifolds. (English summary) **94j:58065**

Li, Jun The space of surface group representations. (English summary) **94c:58022**

Mok, Ngaiming (*with* To, Wing-Keung) Eigensections on Kuga families of abelian varieties and finiteness of their Mordell-Weil groups. **94m:32045**

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32L07 Hermite-Einstein bundles; Kähler-Einstein bundles [see also 53C07]

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Nakagawa, Yasuhiro Einstein-Kähler toric Fano fourfolds. (English summary) **94f:32059**

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32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results [see also 14F05, 18F20, 55N30]

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Manivel, Laurent Un théorème de prolongement L^2 de sections holomorphes d'un fibré hermitien. [An L^2 extension theorem for the holomorphic sections of a Hermitian bundle] **94e:32050**

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— On certain infinite-dimensional aspects of Arakelov intersection theory. (English summary) **94a:58204**

— Complex equivariant intersection, excess normal bundles and Bott-Chern currents. (English summary) **94a:58207**

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Karshon, Yael (*with* Tolman, Susan) The moment map and line bundles over presymplectic toric manifolds. (English summary) **94j:58065**

Knapp, A. W. Introduction to representations in analytic cohomology. (English summary) **94k:22031**

Köhler, Kai *see* **Bismut, Jean-Michel, 94a:58209**

Lebeau, Gilles *see* **Bismut, Jean-Michel, 94a:58205**

Lescure, François Action non triviale sur le premier groupe de cohomologie de Dolbeault. (English and French summaries) [Nontrivial action on the first Dolbeault cohomology group] **94d:32045**

Ohsawa, Takeo The existence of right inverses of residue homomorphisms. **94f:32028**

Putinar, Mihai A reciprocal to the Oka-Grauert principle. **94k:32049**

Rice, John William *see* **Jozsa, Richard, 94b:32053**

Sato, Takeshi The flat holomorphic conformal structure on the Horrocks-Mumford orbifold. **94k:14039**

Soulé, Christophe *see* **Gillet, Henri, 94f:14019**

Tolman, Susan *see* **Karshon, Yael, 94j:58065**

Tong, Yue Lin L. Connections on determinant bundles. **94e:58146**

Viehweg, Eckart *see* **Esnault, Hélène, 94a:14017**

Wolf, Joseph A. Admissible representations and geometry of flag manifolds. (English summary) **94j:22015**

32L15 Bundle convexity [see also 32F10]

Marinescu, Gheorghe Morse inequalities for q-positive line bundles over weakly 1-complete manifolds. (English and French summaries) **94f:32062**

Putinar, Mihai A reciprocal to the Oka-Grauert principle. **94k:32049**

Items with secondary classifications in 32L15

Demailly, Jean-Pierre Holomorphic Morse inequalities on q-convex manifolds. **94f:32060**

Mall, Daniel Filtrable bundles of rank 2 on Hopf surfaces. **94d:32039**

32L20 Vanishing theorems

Demailly, Jean-Pierre Transcendental proof of a generalized Kawamata-Viehweg vanishing theorem. (English summary) **94j:32025**

Enoki, Ichiro Kawamata-Viehweg vanishing theorem for compact Kähler manifolds. **94f:32063**

Manivel, Laurent Théorèmes d'annulation pour les fibrés associés à un fibré ample. [Vanishing theorems for vector bundles associated with an ample vector bundle] **94e:32051**

Items with secondary classifications in 32L20

Beauville, Arnaud Annulation du H^1 pour les fibrés en droites plats. [Vanishing of H^1 for flat line bundles] **94a:14048**

Esnault, Hélène (*with* Viehweg, Eckart) ★ Lectures on vanishing theorems. **94a:14017**

Kato, Masahide Logarithmic projective connections. **94j:53079**

Lupacciolu, Guido Approximation and cohomology vanishing properties of low-dimensional compact sets in a Stein manifold. **94e:32023**

Oda, Tadao The algebraic de Rham theorem for toric varieties. (English summary) **94h:14052**

Saitō, Masa-Hiko Applications of Hodge modules—Kollár conjecture and Kodaira vanishing. **94h:14009**
Tsuji, Hajime Analytic Zariski decomposition. **94j:32024**
Vâjâitu, Viorel Invariance of cohomological q-completeness under finite holomorphic surjections. (English summary) **94k:32017**
Viehweg, Eckart *see* **Esnault, Hélène, 94a:14017**

32L25 Twistor theory, double fibrations

Alekseevskiĭ, D. V. (*with* Graev, M. M.) Twistors of a Riemannian manifold, and CR-structures. (Russian) **94b:32052**
Bureš, Jarolím (*with* Souček, Vladimír) The Penrose transform for Dirac equation. **94i:32048**
Campana, Frédéric Espaces des twisteurs de la classe $\mathscr{C}$. [Twistor spaces of class $\mathscr{C}$] **94f:32064**
D'Agnolo, Andrea (*with* Schapira, Pierre) Correspondance de $\mathscr{D}$-modules et transformation de Penrose. [$\mathscr{D}$-module correspondence and Penrose transform] **94j:32026**
Eastwood, Michael G. Introduction to Penrose transform. **94j:32027**
— (*with* Singer, Michael A.) The Fröhlicher [Frölicher] spectral sequence on a twistor space. (English summary) **94k:32050**
Goncharov, A. B. When is a family of submanifolds locally diffeomorphic to a family of planes? **94h:32050**
Graev, M. M. *see* **Alekseevskiĭ, D. V., 94b:32052**
Jozsa, Richard (*with* Rice, John William) Twistor diagrams and the algebraic de Rham theorem. (English summary) **94b:32053**
Kurke, Herbert Classification of twistor spaces with a pencil of surfaces of degree 1. I. (English summary) **94k:32051**
McHugh, Andrew The space of super light rays for complex conformal spacetimes. (English summary) **94m:32046**
Merkulov, S. A. Simple supergravity, supersymmetric nonlinear gravitons and supertwistor theory. (English summary) **94b:32054**
Nannicini, Antonella Vanishing theorems for twistor spaces. **94a:32044**
Pedersen, Henrik (*with* Poon, Yat Sun) Self-duality and differentiable structures on the connected sum of complex projective planes. (English summary) **94i:32049**
Pontecorvo, Massimiliano Uniformization of conformally flat Hermitian surfaces. (English summary) **94k:32052**
Poon, Yat Sun On the algebraic structure of twistor spaces. **94a:32045**
— *see also* **Pedersen, Henrik, 94i:32049**
Rice, John William *see* **Jozsa, Richard, 94b:32053**
Schapira, Pierre *see* **D'Agnolo, Andrea, 94j:32026**
Singer, Michael A. *see* **Eastwood, Michael G., 94k:32050**
Souček, Vladimír *see* **Bureš, Jarolím, 94i:32048**

Items with secondary classifications in 32L25

Alekseevskiĭ, D. V. (*with* Graev, M. M.) G-structures of twistor type and their twistor spaces. (English summary) **94e:53026**
Cardoso, J. G. New twistor diagrams for massless free fields of arbitrary spin. (English summary) **94j:81088**
— A twistorial description of the processes of mass scattering of Dirac fields. (English summary) **94m:81038**
De Bartolomeis, Paolo Twistor constructions for vector bundles. **94b:53107**
(Dotti Miatello, Isabel) *see* **Rawnsley, John, 94a:58051**
Gal'perin, A. S. (*with* Howe, P. S.; Townsend, P. K.) Twistor transform for superfields. (English summary) **94j:81089**
Gauduchon, Paul Self-dual manifolds with nonnegative Ricci operator. **94g:53032**
Graev, M. M. *see* **Alekseevskiĭ, D. V., 94e:53026**
Howe, P. S. *see* **Gal'perin, A. S.; et al., 94j:81089**
Hurtubise, Jacques C. (*with* Kamran, Niky) Differential invariants, double fibrations and Painlevé equations. **94h:58007**
Kamran, Niky *see* **Hurtubise, Jacques C., 94h:58007**
Kobak, Piotr Z. (*with* Swann, Andrew) Quaternionic geometry of a nilpotent variety. **94j:53057**
LeBrun, Claude (*with* Poon, Yat Sun) Self-dual manifolds with symmetry. (English summary) **94g:53039**
— Self-dual manifolds and hyperbolic geometry. (English summary) **94h:53060**
— A Kähler structure on the space of string worldsheets. (English summary) **94m:58009**
— (*with* Singer, Michael A.) Existence and deformation theory for scalar-flat Kähler metrics on compact complex surfaces. **94e:53070**
Mason, Lionel J. Twistor theory, self-duality and integrability. (English summary) **94j:58086**
— (*with* Woodhouse, N. M. J.) Twistor theory and the Schlesinger equations. (English summary) **94k:58061**
— (*with* Woodhouse, N. M. J.) Self-duality and the Painlevé transcendents. (English summary) **94f:58064**
Mo, Xiao Huan Tournaments and almost complex structures on twistor spaces. (Chinese. English and Chinese summaries) **94k:53084**
Poon, Yat Sun *see* **LeBrun, Claude, 94g:53039**
Rawnsley, John Twistor theory for Riemannian manifolds. **94a:58051**
Singer, Michael A. *see* **LeBrun, Claude, 94e:53070**
Swann, Andrew *see* **Kobak, Piotr Z., 94j:53057**
Tafel, Jacek Two-dimensional reductions of the self-dual Yang-Mills equations in self-dual spaces. (English summary) **94d:53045**
Townsend, P. K. *see* **Gal'perin, A. S.; et al., 94j:81089**
Valli, Giorgio Holomorphic maps from compact manifolds into loop groups as Blaschke products. (English summary) **94i:58049**
Wong, H. W. Dolbeault cohomologies and Zuckerman modules. **94i:22032**
Woodhouse, N. M. J. *see* **Mason, Lionel J., 94f:58064** *and* **94k:58061**

32L30 Holomorphic foliations [see also 58F18]

Berthier, Michel (*with* Cerveau, Dominique) Quelques calculs de cohomologie relative. (English summary) [Some computations of relative cohomology] **94k:32053**
Bonatti, C. (*with* Langevin, Rémi; Moussu, R.) Feuilletages de CP(n): de l'holonomie hyperbolique pour les minimaux exceptionnels. (English summary) [Foliations of CP(n): hyperbolic holonomy for exceptional minima] **94b:32055**
Cerveau, Dominique *see* **Berthier, Michel, 94k:32053**
Gmira, Bouchra Sur les feuilletages holomorphes singuliers de codimension 1. (English summary) [On codimension-1 singular holomorphic foliations] **94d:32042**
Langevin, Rémi *see* **Bonatti, C.; et al., 94b:32055**
Moussu, R. *see* **Bonatti, C.; et al., 94b:32055**
Reiffen, Hans-Jörg ★ Integrals for holomorphic foliations of codimension one. **94h:32051**
Saeki, Akihiro On foliation on complex spaces. **94a:32046**
— On foliations on complex spaces. II. **94b:32056**
Soares, Márcio G. A note on algebraic solutions of foliations in dimension two. **94k:32054**
— On algebraic sets invariant by one-dimensional foliations on CP(3). (English and French summaries) **94b:32057**

Items with secondary classifications in 32L30

Cano, José An extension of the Newton-Puiseux polygon construction to give solutions of Pfaffian forms. (English and French summaries) **94c:58153**
Elizarov, P. M. (*with* Il'yashenko, Yu. S.; Shcherbakov, A. A.; Voronin, S. M.) Finitely generated groups of germs of one-dimensional conformal mappings, and invariants for complex singular points of analytic foliations of the complex plane. **94e:32055**
García, Julio Systèmes linéaires de séries de puissances, pinceaux et feuilletages associés. (English and French summaries) [Linear systems of power series, pencils and associated foliations] **94a:32056**
Gigante, Giuliana (*with* Tomassini, Giuseppe) Foliations with complex leaves. (English and Italian summaries) **94f:32023**
Hénaut, Alain Sur la linéarisation des tissus de $\mathbf{C}^2$. [On the linearization of webs in $\mathbf{C}^2$] **94g:53013**
Il'yashenko, Yu. S. *see* **Elizarov, P. M.; et al., 94e:32055**
Shcherbakov, A. A. *see* **Elizarov, P. M.; et al., 94e:32055**
Tomassini, Giuseppe *see* **Gigante, Giuliana, 94f:32023**
Voronin, S. M. *see* **Elizarov, P. M.; et al., 94e:32055**

32L81 Applications to physics

Items with secondary classifications in 32L81

Merkulov, S. A. Simple supergravity, supersymmetric nonlinear gravitons and supertwistor theory. (English summary) **94b:32054**

32L99 None of the above, but in this section

Items with secondary classifications in 32L99

Gromov, Mikhael L. (*with* Shubin, M. A.) The Riemann-Roch theorem for elliptic operators. **94j:58163**
Mukherjea, Kalyan Coincidence theory—topological & holomorphic. (English summary) **94c:58194**
Shubin, M. A. *see* **Gromov, Mikhael L., 94j:58163**
Tong, Yue Lin L. Flat connections on products of determinant bundles. (*see* **94a:00011**)

32Mxx Complex spaces with a group of automorphisms

32M05 Complex Lie groups, automorphism groups of complex spaces [see also 22E10]

Aripov, R. G. Generators of a differential field of invariant differential rational functions of paths for actions of real orthogonal groups in $\mathbf{C}^n$. (Russian. English and Uzbek summaries) **94m:32047**
Czaja, Konrad Two results on automorphisms groups of complex manifolds. (English summary) **94d:32043**
Goldman, William M. (*with* Parker, John R.) Dirichlet polyhedra for dihedral groups acting on complex hyperbolic space. (English summary) **94d:32044**
Heinzner, Peter Equivariant holomorphic extensions of real analytic manifolds. (English and French summaries) **94i:32050**
Kang, Hyeonbae Automorphism groups on certain Reinhardt domains. **94i:32051**
Kim, Kang Tae On a boundary point repelling automorphism orbits. **94m:32048**
Lescure, François Action non triviale sur le premier groupe de cohomologie de Dolbeault. (English and French summaries) [Nontrivial action on the first Dolbeault cohomology group] **94d:32045**
Oeljeklaus, Karl On the automorphism group of certain hyperbolic domains in $\mathbf{C}^2$. (English summary) **94i:32052**
Parker, John R. *see* **Goldman, William M., 94d:32044**
Saerens, Rita (*with* Zame, William R.) The local automorphism group of a CR hypersurface. **94f:32065**
Winkelmann, Jörg Invariant hyperbolic Stein domains. **94e:32052**
— On C-actions on compact complex manifolds with many compact orbits. **94i:32053**
Zame, William R. *see* **Saerens, Rita, 94f:32065**

Items with secondary classifications in 32M05

Abe, Yukitaka Sur les fonctions périodiques de plusieurs variables. II. Réduction au cas défini positif. [On periodic functions of several variables. II. Reduction to the positive definite case] **94b:32050**
Berteloot, François Un principe de localisation pour les domaines faiblement pseudoconvexes de $\mathbf{C}^2$ dont le groupe d'automorphismes holomorphes n'est pas compact. (French

summary) [A localization principle for weakly pseudoconvex domains in $\mathbf{C}^2$ whose group of holomorphic automorphisms is not compact] **94k:32019**
Brylinski, Ranee Kathryn (*with* Kostant, Bertram) Nilpotent orbits, normality and Hamiltonian group actions. **94g:22031**
Huckleberry, Alan T. (*with* Winkelmann, Jörg) Subvarieties of parallelizable manifolds. **94a:32048**
Kostant, Bertram *see* **Brylinski, Ranee Kathryn, 94g:22031**
Penney, Richard C. Homogeneous Koszul manifolds in $\mathbf{C}^n$. **94g:32040**
Shvartsman, O. V. Cocycles of complex reflection groups and the strong simple-connectedness of quotient spaces. (Russian) **94a:22025**
Winkelmann, Jörg *see* **Huckleberry, Alan T., 94a:32048**

32M10 Homogeneous complex manifolds [see also 14M17, 57T15]

Akhiezer, D. N. Invariant plurisubharmonic functions and geodesic convexity. (English summary) **94k:32055**
Dimou, G. E. Complete classification of nonsymmetric homogeneous bounded domains of dimension 7 up to 9. **94f:32066**
— Complete classification of nonsymmetric homogeneous bounded domains of dimension 14 up to 20. **94f:32067**
— Classification of homogeneous convex cones and skeletons of dimension 12. **94f:32068**
— Complete classification of convex cones and skeletons of dimensions seven up to thirteen. **94d:32046d**
— (*with* Tsagas, Gr. F.) Convex cones and skeletons of dimension fourteen. **94d:32046a**
— Classification of homogeneous convex cones and skeletons of dimension 11. **94d:32046b**
— Some properties of nonsymmetric homogeneous domain dimension 7 over C. **94d:32046c**
Fels, G. *see* **Huckleberry, Alan T., 94a:32049**
Gilligan, Bruce On homogeneous complex manifolds having more than two ends. (English summary) **94a:32047**
Huckleberry, Alan T. (*with* Fels, G.) A characterization of K-invariant Stein domains in symmetric embeddings. **94a:32049**
— (*with* Winkelmann, Jörg) Subvarieties of parallelizable manifolds. **94a:32048**
Penney, Richard C. Homogeneous Koszul manifolds in $\mathbf{C}^n$. **94g:32040**
Tsagas, Gr. F. *see* **Dimou, G. E., 94d:32046a**
Winkelmann, Jörg *see* **Huckleberry, Alan T., 94a:32048**
Xu, Yi Chao Some results on the homogeneous Siegel domains in $\mathbf{C}^n$. **94a:32050**

Items with secondary classifications in 32M10

Azad, H. (*with* Loeb, J.-J.) Plurisubharmonic functions and Kählerian metrics on complexification of symmetric spaces. **94a:32014**
Kanemaru, Tadayoshi A distortion theorem in several complex variables. **94e:32038**
Kayoya, Jean-Bosco Transformation de Kelvin sur une algèbre de Jordan. (English and French summaries) [Kelvin transform on a Jordan algebra] **94c:17049**
Loeb, J.-J. *see* **Azad, H., 94a:32014**
Lychagin, V. V. *see* **Zil'bergleit, L. V., 94c:58232**
Zil'bergleit, L. V. (*with* Lychagin, V. V.) Spencer cohomology of invariant systems of differential equations on homogeneous spaces. (Russian) **94c:58232**

32M15 Hermitian symmetric spaces, bounded symmetric domains [see also 22E10, 22E40, 53C35, 57T15]

Borthwick, David (*with* Lesniewski, Andrzej; Rinaldi, Maurizio) Hermitian symmetric superspaces of type IV. (English summary) **94g:32041**
Burstall, Francis (*with* Mushkarov, Oleg K.; Grantcharov, Geo; Rawnsley, John) Hermitian structures on Hermitian symmetric spaces. (English summary) **94a:32051**
Chen, Ji Yang The maximal group of holomorphic automorphisms of the domain $R_V(16)$. (Chinese. English and Chinese summaries) **94k:32056**
Fauntleroy, Amassa Projective ranks of Hermitian symmetric spaces. **94f:32069**
Gong, Sheng *see* **Yan, Zhi Min, 94h:32053**
Grantcharov, Geo *see* **Burstall, Francis; et al., 94a:32051**
Hong, Yi *see* **Lu, Qi Keng, 94c:32020**
Isidro, José-M. (*with* Kaup, Wilhelm) Determining boundary sets of bounded symmetric domains. (English summary) **94i:32054**
Kaup, Wilhelm *see* **Isidro, José-M., 94i:32054**
Lesniewski, Andrzej *see* **Borthwick, David; et al., 94g:32041**
Lu, Qi Keng (*with* Hong, Yi) The heat kernel of the classical domain $\mathfrak{R}_I(m,n)$. **94c:32020**
MacPherson, Robert (*with* McConnell, Mark) Explicit reduction theory for Siegel modular threefolds. **94a:32052**
McConnell, Mark *see* **MacPherson, Robert, 94a:32052**
Mok, Ngaiming (*with* Yeung, Sai-Kee) Geometric realizations of uniformization of conjugates of Hermitian locally symmetric manifolds. **94c:32021**
Mushkarov, Oleg K. *see* **Burstall, Francis; et al., 94a:32051**
Rawnsley, John *see* **Burstall, Francis; et al., 94a:32051**
Rinaldi, Maurizio *see* **Borthwick, David; et al., 94g:32041**
Tsai, I Hsun Rigidity of holomorphic maps from compact Hermitian symmetric spaces to smooth projective varieties. **94h:32052**
Yan, Zhi Min (*with* Gong, Sheng) Bloch constant of holomorphic mappings on bounded symmetric domains. (English summary) **94h:32053**
— A norm-preserving H^∞ extension problem. (English summary) **94j:32028**
Yau, Shing-Tung (*with* Zheng, Fangyang) Remarks on certain higher-dimensional quasi-Fuchsian domains. (*see* **94a:00011**)
Yeung, Sai-Kee *see* **Mok, Ngaiming, 94c:32021**
Zheng, Fangyang *see* **Yau, Shing-Tung, (94a:00011)**
Zhu, Fu Liu The heat kernel of the second classical domain and of the symmetric space of a normal real form. (English summary) **94h:32054**

Items with secondary classifications in 32M15

Abate, Marco The complex geodesics of noncompact Hermitian symmetric spaces. (English summary) **94m:32036**
Borthwick, David (*with* Lesniewski, Andrzej; Upmeier, Harald) Nonperturbative deformation quantization of Cartan domains. (English summary) **94d:47065**
Cohen, Joel M. (*with* Colonna, Flavia) Bounded holomorphic functions on bounded symmetric domains. (English summary) **94g:32007**
Colonna, Flavia *see* **Cohen, Joel M., 94g:32007**
D'Atri, J. E. (*with* Gindikin, S. G.) Siegel domain realization of pseudo-Hermitian symmetric manifolds. (English summary) **94b:53085**
Dimou, G. E. Geometric representation of normal J-algebras dimension 6 over C. **94a:17016a**
— Geometric representation of normal J-algebras dimension 8 over C. **94a:17016b**
— Geometric representation of normal J-algebras dimension 10 over C. **94a:17016c**
Geatti, Laura On the curvature of bounded homogeneous domains. **94f:32019**
Gindikin, S. G. *see* **D'Atri, J. E., 94b:53085**
Hahn, K. T. (*with* Youssfi, El Hassan) Besov spaces of M-harmonic functions on bounded symmetric domains. (English summary) **94g:46029**
Kostant, Bertram (*with* Sahi, Siddhartha) Jordan algebras and Capelli identities. **94b:17054**
Lee, Min Ho Conjugates of (H_2)-equivariant maps of symmetric domains. **94e:14029**
Lesniewski, Andrzej *see* **Borthwick, David; et al., 94d:47065**
Ol'shanskii, G. I. Complex Lie semigroups, Hardy spaces and the Gel'fand-Gindikin program. (English summary) **94h:22006**
Peetre, Jaak The periodic Fock bundle. (English summary) **94a:58011**
— Correspondence principle for the quantized annulus, Romanovski polynomials, and Morse potential. (English summary) **94m:47056**
— The Bellaterra connection. (English summary) **94j:58018**
Sahi, Siddhartha Unitary representations on the Shilov boundary of a symmetric tube domain. (English summary) **94e:22029**
— *see also* **Kostant, Bertram, 94b:17054**
Sergeev, A. G. On matrix Reinhardt and circled domains. **94a:32001**
Upmeier, Harald Weyl quantization of complex domains. (*see* **93e:00027**)
— *see also* **Borthwick, David; et al., 94d:47065**
Włodarczyk, Kazimierz The Julia-Carathéodory theorem for distance-decreasing maps on infinite-dimensional hyperbolic spaces. (English and Italian summaries) **94i:58008**
Youssfi, El Hassan *see* **Hahn, K. T., 94g:46029**

32M99 None of the above, but in this section

Items with secondary classifications in 32M99

Greene, Robert E. (*with* Krantz, Steven G.) Techniques for studying automorphisms of weakly pseudoconvex domains. **94b:32016**
Krantz, Steven G. *see* **Greene, Robert E., 94b:32016**

32Nxx Automorphic functions [see also 11Fxx, 20H10, 22E40, 30F35]

32N10 Automorphic forms

Items with secondary classifications in 32N10

Bougerol, Philippe Kalman filtering with random coefficients and contractions. (English summary) **94h:93078**
Ferrara, S. (*with* Kounnas, Costas; Lüst, Dieter; Zwirner, F.) Automorphic functions and special Kähler geometry. (English summary) (*see* **94b:32001**)
Freitag, Eberhard ★ Singular modular forms and theta relations. **94b:11038**
Kounnas, Costas *see* **Ferrara, S.; et al., (94b:32001)**
Lüst, Dieter *see* **Ferrara, S.; et al., (94b:32001)**
Satake, Ikuo Flat structure for the simply elliptic singularity and Jacobi form. **94m:32050**
Zwirner, F. *see* **Ferrara, S.; et al., (94b:32001)**

32N15 Automorphic functions in symmetric domains

Matsumoto, Keiji Theta functions on the bounded symmetric domain of type $I_{2,2}$ and the period map of a 4-parameter family of $K3$ surfaces. **94m:32049**

Items with secondary classifications in 32N15

Chen, So-Chin Real analytic regularity of the Bergman and Szegő projections on decoupled domains. **94g:32020**
Kim, Henry H. Exceptional modular form of weight 4 on an exceptional domain contained in $\mathbf{C}^{27}$. (English summary) **94c:11040**

32N99 None of the above, but in this section

Items with secondary classifications in 32N99

Lüst, Dieter Duality invariant effective string actions and automorphic functions for (2, 2) string compactifications. (English summary) (*see* **94b:81006**)

32P05 Non-Archimedean complex analysis (should also be assigned at least one other classification number from Section 32 describing the type of problem)

Lipshitz, L. Rigid subanalytic sets. **94d:32047**
Lütkebohmert, Werner Riemann's existence problem for a p-adic field. **94d:32048**
Robinson, Zachary Smooth points of p-adic subanalytic sets. (English summary) **94h:32055**

Items with secondary classifications in 32P05

Arrowsmith, David K. (*with* Vivaldi, F.) Some p-adic representations of the Smale horseshoe. (English summary) **94c:58054**
Bekker, B. M. (*with* Vostokov, S. V.) An algebraic approach to the implicit function theorem. (Russian. Russian summary) **94a:32009**
Bosch, Siegfried (*with* Lütkebohmert, Werner) Formal and rigid geometry. II. Flattening techniques. **94e:11070**
Lütkebohmert, Werner *see* **Bosch, Siegfried, 94e:11070**
van der Put, Marius (*with* Voskuil, H.) Symmetric spaces associated to split algebraic groups over a local field. **94h:14022**
Schneider, Peter Points of rigid analytic varieties. **94b:14017**
Vivaldi, F. *see* **Arrowsmith, David K., 94c:58054**
Voskuil, H. *see* **van der Put, Marius, 94h:14022**
Vostokov, S. V. *see* **Bekker, B. M., 94a:32009**

32Sxx Singularities

Dimca, Alexandru ★ Singularities and topology of hypersurfaces. **94b:32058**

Items listed otherwise than by author

Analytic varieties and singularities ★ Kaiseki tayōtai to tokuiten. [Analytic varieties and singularities] **94f:32070**
Symposium:
Analytic Varieties and Singularities ★ Kaiseki tayōtai to tokuiten. [Analytic varieties and singularities] **94f:32070**

Items with secondary classifications in 32Sxx

(Arnol'd, V. I.) *see* **Dynamical systems, 94b:58018**
(Iacob, A.) *see* **Dynamical systems, 94b:58018**

Items listed otherwise than by author

Dynamical systems ★ Dynamical systems. VI. **94b:58018**
Encyclopaedia of Mathematical Sciences ★ Dynamical systems. VI. **94b:58018**

32S05 Local singularities [see also 14B05]

Meziani, Abdelhamid Cohomology relative to the germ of an exact form. **94j:32029**
Tari, Farid Recognition of $\mathscr{R}$-singularities of functions. (English summary) **94a:32053**
Zaharia, Alexandru On some derivations of negative weights and simple germs with nonisolated singularities. (English summary) **94f:32071**

Items with secondary classifications in 32S05

Chun, E. J. (*with* Lauer, J.; Nilles, H. P.) Equivalence of Z_N orbifolds and Landau-Ginzburg models. **94b:81098**
Gaffney, Terence Punctual Hilbert schemes and resolutions of multiple point singularities. **94b:14004**
Gibson, C. G. (*with* Hobbs, C. A.) Simple singularities of space curves. **94a:58026**
Gusein-Zade, S. M. On singularities that admit splitting off A_1. (Russian) **94i:58017**
Hobbs, C. A. *see* **Gibson, C. G., 94a:58026**
Kawai, Toshiya Fine structure of the MVW correspondence. **94e:81293**
Lauer, J. *see* **Chun, E. J.; et al., 94b:81098**
Nazaĭkinskiĭ, V. E. (*with* Sternin, B. Yu.; Shatalov, V. E.) Maslov operational calculus and noncommutative analysis. (English summary) **94e:58137**
Nilles, H. P. *see* **Chun, E. J.; et al., 94b:81098**
Shatalov, V. E. *see* **Nazaĭkinskiĭ, V. E.; et al., 94e:58137**
Sternin, B. Yu. *see* **Nazaĭkinskiĭ, V. E.; et al., 94e:58137**

32S10 Invariants of analytic local rings

Items with secondary classifications in 32S10

Vafa, Cumrun Topological mirrors and quantum rings. (English summary) **94c:81193**

32S15 Equisingularity (topological and analytic) [see also 14E15]

Gaffney, Terence Polar multiplicities and equisingularity of map germs. **94f:32072**

Items with secondary classifications in 32S15

Teissier, Bernard A bouquet of bouquets for a birthday. **94b:32062**

32S20 Global theory of singularities; cohomological properties [see also 14E15]

Libgober, Anatoly Topological invariants of affine hypersurfaces: connectivity, ends, and signature. **94g:32042**

Items with secondary classifications in 32S20

Meziani, Abdelhamid Cohomology relative to the germ of an exact form. **94j:32029**
Ziegler, Günter M. On the difference between real and complex arrangements. **94f:52017**

32S25 (Hyper-) surface singularities [see also 14J17]

Artal-Bartolo, Enrique Forme de Jordan de la monodromie des singularités superisolées de surfaces. (English summary) [Jordan form of the monodromy of superisolated singularities of surfaces] **94j:32030**
Ban, Chunsheng Auréole of a quasi-ordinary singularity. (English summary) **94i:32055**
Barannikov, S. A. The complements of the resultant and the discriminant in $\mathbf{C}^n$ are M-manifolds. (Russian. Russian summary) **94j:32031**
Barlet, Daniel Theory of (a, b)-modules. I. **94h:32056**
Montaldi, James (*with* van Straten, Duco) Quotient spaces and critical points of invariant functions for $\mathbf{C}^*$-actions. **94g:32043**
van Straten, Duco *see* **Montaldi, James, 94g:32043**
Tomari, Masataka The inequality $8p_g < \mu$ for hypersurface two-dimensional isolated double points. (English summary) **94j:32032**
Urabe, Tohsuke ★ Dynkin graphs and quadrilateral singularities. **94j:32033**
Wirthmüller, Klaus On the conflict variety of an isolated hypersurface singularity. **94a:32054**
Xu, Yijing (*with* Yau, Stephen S.-T.) Durfee conjecture and coordinate free characterization of homogeneous singularities. **94f:32073**
Yau, Stephen S.-T. *see* **Xu, Yijing, 94f:32073**
Yu, Jian Ming On the symmetry of Stokes regions of a simple singularity. **94h:32057**

Items with secondary classifications in 32S25

Bilitewski, Franz-Josef ★ Deformationen von Dreiecks- und Viereckssingularitäten der Einbettungsdimension drei. (German) [Deformations of triangular and quadrilateral singularities of embedding dimension three] **94i:32056**
Blache, Raimund Positivity results for Euler characteristics of singular surfaces. (English summary) **94k:32046**
Dimca, Alexandru ★ Singularities and topology of hypersurfaces. **94b:32058**
Hitchin, Nigel Hyper-Kähler manifolds. (English summary) **94f:53087**
de Jong, Theo (*with* van Straten, Duco) On the deformation theory of rational surface singularities with reduced fundamental cycle. (English summary) **94h:32058**
Kempf, George R. Jacobians and invariants. **94b:14043**
Massey, D. B. (*with* Siersma, D.) Deformation of polar methods. (English and French summaries) **94h:32059**
Oh, Kyungho The homology groups of the links of quasi-ordinary singularities. **94i:32057**
Orlik, Peter (*with* Terao, Hiroaki) ★ Arrangements of hyperplanes. **94e:52014**
Paris, Luis Universal cover of Salvetti's complex and topology of simplicial arrangements of hyperplanes. **94a:52029**
Perron, Bernard (*with* Vannier, Jean-Pierre) Groupe de monodromie géométrique des singularités simples. (English and French summaries) [Geometric monodromy groups of simple singularities] **94d:32050**
Satake, Ikuo Flat structure for the simply elliptic singularity and Jacobi form. **94m:32050**
Scherk, John On the pole order and Hodge filtrations of isolated hypersurface singularities. (English summary) **94m:32051**
Siersma, D. *see* **Massey, D. B., 94h:32059**
van Straten, Duco *see* **de Jong, Theo, 94h:32058**
Terao, Hiroaki *see* **Orlik, Peter, 94e:52014**
Tomaru, Tadashi On numerically Gorenstein quasi-simple elliptic singularities with $\mathbf{C}^*$-action. (English summary) **94b:14031**
Vannier, Jean-Pierre *see* **Perron, Bernard, 94d:32050**
Watanabe, Kimio Three-dimensional hypersurface purely elliptic singularities of $(0, 1)$-type. **94k:14003**

32S30 Deformations of singularities; vanishing cycles [see also 14B07]

Barlet, Daniel Vanishing cycles and poles of $\int_X |f|^{2\lambda}\square$. **94e:32053**
Bilitewski, Franz-Josef ★ Deformationen von Dreiecks- und Viereckssingularitäten der Einbettungsdimension drei. (German) [Deformations of triangular and quadrilateral singularities of embedding dimension three] **94i:32056**
Entov, M. R. Real pre-images of a real point under the Lyashko-Looijenga covering for simple singularities. (Russian. Russian summary) **94k:32057**
Goryunov, V. V. (*with* Mond, David) Vanishing cohomology of singularities of mappings. **94k:32058**
de Jong, Theo (*with* van Straten, Duco) On the deformation theory of rational surface singularities with reduced fundamental cycle. (English summary) **94h:32058**
Kostov, V. P. (*with* Lando, S. K.) Versal deformations of powers of volume forms. (English summary) **94g:32044**
Lando, S. K. *see* **Kostov, V. P., 94g:32044**
Massey, D. B. (*with* Siersma, D.) Deformation of polar methods. (English and French summaries) **94h:32059**
Mond, David *see* **Goryunov, V. V., 94k:32058**
Saito, Kyoji On a linear structure of the quotient variety by a finite reflexion group. **94k:32059**
Satake, Ikuo Flat structure for the simply elliptic singularity and Jacobi form. **94m:32050**
Siersma, D. *see* **Massey, D. B., 94h:32059**
van Straten, Duco *see* **de Jong, Theo, 94h:32058**

Items with secondary classifications in 32S30

Damon, James (*with* Galligo, André) Universal topological stratification for the Pham example. (English and French summaries) **94f:32075**
Dancer, Andrew S. Dihedral singularities and gravitational instantons. (English summary) **94g:53038**
Galligo, André *see* **Damon, James, 94f:32075**
Kawai, Toshiya Fine structure of the MVW correspondence. **94e:81293**
Millson, John J. CR-geometry and deformations of isolated singularities. **94g:32026**
Perron, Bernard (*with* Vannier, Jean-Pierre) Groupe de monodromie géométrique des singularités simples. (English and French summaries) [Geometric monodromy groups of simple singularities] **94d:32050**
Satake, Ikuo Flat structure for the simple elliptic singularity of type $\tilde{E}_6$ and Jacobi form. **94j:14003**
Schechtman, Vadim V. Vanishing cycles and quantum groups. II. **94d:17020**
— Quantum groups and perverse sheaves: an example. **94k:17029**
Stevens, Jan The versal deformation of universal curve singularities. **94h:14007**
— Partial resolutions of quotient singularities. **94b:14030**
Vannier, Jean-Pierre *see* **Perron, Bernard, 94d:32050**
Wall, C. T. C. Root system, subsystems and singularities. **94a:14001**

32S35 Mixed Hodge theory of singular varieties [see also 14C30, 14D07]

Bungart, Lutz Vanishing cup products on pseudoconvex CR manifolds. (English summary) **94b:32059**

Ogata, Shoetsu Hirzebruch's conjecture on cusp singularities. **94d:32049**

Scherk, John On the pole order and Hodge filtrations of isolated hypersurface singularities. (English summary) **94m:32051**

Varchenko, A. N. Hodge filtration of hypergeometric integrals associated with an affine configuration of general position and a local Torelli theorem. **94f:32074**

Items with secondary classifications in 32S35

Artal-Bartolo, Enrique Forme de Jordan de la monodromie des singularités superisolées de surfaces. (English summary) [Jordan form of the monodromy of superisolated singularities of surfaces] **94j:32030**

— Combinatorics and topology of line arrangements in the complex projective plane. (English summary) **94h:14020**

Shatalov, V. E. *see* **Sternin, B. Yu., 94g:58228**

Shimizu, Yuji An introduction to Morihiko Saito's theory of mixed Hodge modules (version 0.5). **94d:14011**

Sternin, B. Yu. (*with* Shatalov, V. E.) A ramified Cauchy problem for operators that have Hamiltonian rest points. (Russian) **94g:58228**

32S40 Monodromy; relations with differential equations and D-modules

Andronikof, Emmanuel Singularities of generalized Euler integrals. (English summary) **94e:32054**

Barlet, Daniel (*with* Mardhy, A.) Un critère topologique d'existence de pôles pour le prolongement méromorphe de $\int_A f^\lambda \square$. (English and French summaries) [A topological criterion for the existence of poles for the meromorphic extension of $\int_A f^\lambda \square$] **94k:32060**

Dimca, Alexandru (*with* Saito, Morihiko) On the cohomology of a general fiber of a polynomial map. **94b:32060**

Douai, Antoine Équations aux différences finies, intégrales de fonctions multiformes et polyèdres de Newton. [Finite difference equations, integrals of multivalent functions and Newton polyhedra] **94h:32060**

Esnault, Hélène (*with* Schechtman, Vadim V.; Viehweg, Eckart) Erratum: "Cohomology of local systems on the complement of hyperplanes" [Invent. Math. **109** (1992), no. 3, 557–561; MR 93g:32051]. **94b:32061**

Mardhy, A. *see* **Barlet, Daniel, 94k:32060**

Nguyễn Hữu Dự'c Gauss-Manin systems with boundary and stability of a regular analytic intersection. (English summary) **94h:32061**

Perron, Bernard (*with* Vannier, Jean-Pierre) Groupe de monodromie géométrique des singularités simples. (English and French summaries) [Geometric monodromy groups of simple singularities] **94d:32050**

Saito, Morihiko *see* **Dimca, Alexandru, 94b:32060**

Savel'ev, I. V. Cyclotomic polynomials and singularities of complex hypersurfaces. (Russian) **94h:32062**

Schechtman, Vadim V. *see* **Esnault, Hélène; et al., 94b:32061**

Terasoma, Tomohide On the determinant of Gauss-Manin connections and hypergeometric functions of hypersurfaces. **94m:32052**

Vannier, Jean-Pierre *see* **Perron, Bernard, 94d:32050**

Viehweg, Eckart *see* **Esnault, Hélène; et al., 94b:32061**

Items with secondary classifications in 32S40

Artal-Bartolo, Enrique Forme de Jordan de la monodromie des singularités superisolées de surfaces. (English summary) [Jordan form of the monodromy of superisolated singularities of surfaces] **94j:32030**

Barlet, Daniel Vanishing cycles and poles of $\int_X |f|^{2\lambda}\square$. **94e:32053**

— Theory of (a, b)-modules. I. **94h:32056**

Delabaere, É. (*with* Dillinger, H.; Pham, F.) Résurgence de Voros et périodes des courbes hyperelliptiques. (English and French summaries) [Voros resurgence and periods of hyperelliptic curves] **94i:34115**

Dillinger, H. *see* **Delabaere, É.; et al., 94i:34115**

Dunkl, Charles F. Differential-difference operators and monodromy representations of Hecke algebras. (English summary) **94h:32040**

Kato, Tomohisa (*with* Kawai, Sōichi) On an explicit presentation of $\mathscr{D}_X$ module $\mathscr{L}(Y, X)$ for some simple X, Y. I. **94e:32024**

Kawai, Sōichi *see* **Kato, Tomohisa, 94e:32024**

Libgober, Anatoly Topological invariants of affine hypersurfaces: connectivity, ends, and signature. **94g:32042**

Montaldi, James (*with* van Straten, Duco) Quotient spaces and critical points of invariant functions for $\mathbf{C}^*$-actions. **94g:32043**

Pham, F. *see* **Delabaere, É.; et al., 94i:34115**

Shimizu, Yuji An introduction to Morihiko Saito's theory of mixed Hodge modules (version 0.5). **94d:14011**

van Straten, Duco *see* **Montaldi, James, 94g:32043**

Terasoma, Tomohide Exponential Kummer coverings and determinants of hypergeometric functions. **94k:33035**

Varchenko, A. N. A geometric approach to representation theory of quantum groups. **94f:17016**

Veys, Willem Holomorphy of local zeta functions for curves. **94c:11115**

32S45 Modifications; resolution of singularities [see also 14E15]

Youssin, Boris L^2-cohomology, Nash blowup and semismall resolutions. (English summary) **94h:32063**

Items with secondary classifications in 32S45

Gaffney, Terence Punctual Hilbert schemes and resolutions of multiple point singularities. **94b:14004**

Tian, Gang Smoothing 3-folds with trivial canonical bundle and ordinary double points. **94c:14036**

Tomari, Masataka The inequality $8p_g < \mu$ for hypersurface two-dimensional isolated double points. (English summary) **94j:32032**

Trifonov, S. I. Resolution of singularities in one-parameter analytic families of differential equations. **94b:32063**

32S50 Topological aspects: Lefschetz theorems, topological classification, invariants

Choudary, A. D. R. On the topology of resultant hypersurface. **94k:32061**

Dudziński, P. (*with* Łęcki, A.; Nowak-Przygodzki, P.; Szafraniec, Z.) On topological invariance of the Milnor number mod 2. **94h:32064**

Glutsyuk, A. A. An analogue of Cayley's theorem for cyclic symmetric connected graphs with one cycle that are associated with generalized Lyashko-Looijenga coverings. (Russian) **94g:32045**

Karpushkin, V. N. Estimates for homology groups of some manifolds. (Russian) **94j:32034**

Łęcki, A. *see* **Dudziński, P.; et al., 94h:32064**

Nowak-Przygodzki, P. *see* **Dudziński, P.; et al., 94h:32064**

Oh, Kyungho The homology groups of the links of quasi-ordinary singularities. **94i:32057**

Simpson, Carlos T. Lefschetz theorems for the integral leaves of a holomorphic one-form. **94h:32065**

Szafraniec, Z. *see* **Dudziński, P.; et al., 94h:32064**

Items with secondary classifications in 32S50

Ban, Chunsheng Auréole of a quasi-ordinary singularity. (English summary) **94i:32055**

Barannikov, S. A. The complements of the resultant and the discriminant in $\mathbf{C}^n$ are M-manifolds. (Russian. Russian summary) **94j:32031**

Dimca, Alexandru ★ Singularities and topology of hypersurfaces. **94b:32058**

Hamm, Helmut A. (*with* Lê Dũng Tráng) Relative homotopical depth and a conjecture of Deligne. **94h:32066**

Jiang, Tan (*with* Yau, Stephen S.-T.) Topological invariance of intersection lattices of arrangements in $\mathbf{CP}^2$. (English summary) **94b:52022**

Lê Dũng Tráng *see* **Hamm, Helmut A., 94h:32066**

Marar, W. L. Mapping fibrations. (English summary) **94i:32058**

Massey, D. B. (*with* Siersma, D.) Deformation of polar methods. (English and French summaries) **94h:32059**

Ogata, Shoetsu Hirzebruch's conjecture on cusp singularities. **94d:32049**

Rudolph, Lee Totally tangential links of intersection of complex plane curves with round spheres. **94d:57027**

Seeley, Craig (*with* Yau, Stephen S.-T.) Algebraic methods in the study of simple-elliptic singularities. **94c:14002**

Siersma, D. *see* **Massey, D. B., 94h:32059**

Xu, Yijing (*with* Yau, Stephen S.-T.) Durfee conjecture and coordinate free characterization of homogeneous singularities. **94f:32073**

Yau, Stephen S.-T. *see* **Jiang, Tan, 94b:52022; Seeley, Craig, 94c:14002** *and* **Xu, Yijing, 94f:32073**

32S55 Milnor fibration; relations with knot theory [see also 57M25, 57Q45]

Du Bois, Philippe (*with* Michel, Françoise) The integral Seifert form does not determine the topology of plane curve germs. (English summary) **94k:32062**

Marar, W. L. Mapping fibrations. (English summary) **94i:32058**

Michel, Françoise *see* **Du Bois, Philippe, 94k:32062**

Teissier, Bernard A bouquet of bouquets for a birthday. **94b:32062**

Items with secondary classifications in 32S55

Artal-Bartolo, Enrique Forme de Jordan de la monodromie des singularités superisolées de surfaces. (English summary) [Jordan form of the monodromy of superisolated singularities of surfaces] **94j:32030**

Barlet, Daniel (*with* Mardhy, A.) Un critère topologique d'existence de pôles pour le prolongement méromorphe de $\int_A f^\lambda \square$. (English and French summaries) [A topological criterion for the existence of poles for the meromorphic extension of $\int_A f^\lambda \square$] **94k:32060**

Choudary, A. D. R. On the topology of resultant hypersurface. **94k:32061**

Dimca, Alexandru (*with* Saito, Morihiko) On the cohomology of a general fiber of a polynomial map. **94b:32060**

Du Bois, Philippe (*with* Michel, Françoise) Cobordism of algebraic knots via Seifert forms. (English summary) **94d:57051**

Lê Văn Thành *see* **Neumann, Walter D., 94a:14027**

Libgober, Anatoly Topological invariants of affine hypersurfaces: connectivity, ends, and signature. **94g:32042**

Mardhy, A. *see* **Barlet, Daniel, 94k:32060**

Michel, Françoise *see* **Du Bois, Philippe, 94d:57051**

Neumann, Walter D. (*with* Lê Văn Thành) On irregular links at infinity of algebraic plane curves. **94a:14027**

Perron, Bernard (*with* Vannier, Jean-Pierre) Groupe de monodromie géométrique des singularités simples. (English and French summaries) [Geometric monodromy groups of simple singularities] **94d:32050**

Rudolph, Lee Totally tangential links of intersection of complex plane curves with round spheres. **94d:57027**

— Quasipositivity as an obstruction to sliceness. (English summary) **94d:57028**

Saito, Kyoji On a linear structure of the quotient variety by a finite reflexion group. **94k:32059**

Saito, Morihiko *see* **Dimca, Alexandru, 94b:32060**

Scherk, John On the pole order and Hodge filtrations of isolated hypersurface singularities. (English summary) **94m:32051**

Vannier, Jean-Pierre *see* **Perron, Bernard, 94d:32050**

32S60 Stratifications; constructible sheaves; intersection cohomology [see also 58C27]

Andronikof, Emmanuel Intégrales de Nilsson et faisceaux constructibles. [Nilsson integrals and constructible sheaves] **94d:32051**
Cohen, Daniel C. Cohomology and intersection cohomology of complex hyperplane arrangements. **94a:32055**
Damon, James (*with* Galligo, André) Universal topological stratification for the Pham example. (English and French summaries) **94f:32075**
Galligo, André *see* **Damon, James, 94f:32075**
Hamm, Helmut A. (*with* Lê Dũng Tráng) Relative homotopical depth and a conjecture of Deligne. **94h:32066**
Kwieciński, Michał (*with* Yokura, Shoji) Product formula for twisted MacPherson classes. **94d:32052**
Lê Dũng Tráng *see* **Hamm, Helmut A., 94h:32066**
Parusiński, Adam Limits of tangent spaces to fibres and the w_f condition. **94i:32059**
Yokura, Shoji *see* **Kwieciński, Michał, 94d:32052**

Items with secondary classifications in 32S60

Cappell, Sylvain E. (*with* Shaneson, Julius L.) Genera of algebraic varieties and counting of lattice points. (English summary) **94f:14018**
Fox, Jeffrey (*with* Haskell, Peter) Hodge decompositions and Dolbeault complexes on normal surfaces. (English summary) **94h:58156**
Gmira, Bouchra Sur les feuilletages holomorphes singuliers de codimension 1. (English summary) [On codimension-1 singular holomorphic foliations] **94d:32042**
Haskell, Peter *see* **Fox, Jeffrey, 94h:58156**
Kato, Tomohisa (*with* Kawai, Sōichi) On an explicit presentation of $\mathscr{D}_X$ module $\mathscr{L}(Y, X)$ for some simple X, Y. I. **94e:32024**
Kawai, Sōichi *see* **Kato, Tomohisa, 94e:32024**
Lê Dũng Tráng Depth and perversity. **94j:14025**
Oda, Tadao The algebraic de Rham theorem for toric varieties. (English summary) **94h:14052**
Schapira, Pierre (*with* Tose, Nobuyuki) Morse inequalities for perverse sheaves. **94e:58021**
Shaneson, Julius L. *see* **Cappell, Sylvain E., 94f:14018**
Shatalov, V. E. *see* **Sternin, B. Yu., 94g:58228**
Stern, Mark L_2-cohomology and index theory of noncompact manifolds. **94c:58195**
Sternin, B. Yu. (*with* Shatalov, V. E.) A ramified Cauchy problem for operators that have Hamiltonian rest points. (Russian) **94g:58228**
Teissier, Bernard A bouquet of bouquets for a birthday. **94b:32062**
Tose, Nobuyuki *see* **Schapira, Pierre, 94e:58021**
Youssin, Boris L^2-cohomology, Nash blowup and semismall resolutions. (English summary) **94h:32063**

32S65 Singularities of holomorphic vector fields

García, Julio Systèmes linéaires de séries de puissances, pinceaux et feuilletages associés. (English and French summaries) [Linear systems of power series, pencils and associated foliations] **94a:32056**
Gómez-Mont, Xavier (*with* Seade, José A.; Verjovsky, Alberto) On the topology of a holomorphic vector field in a neighborhood of an isolated singularity. (Russian. Russian summary) **94k:32063**
Graev, M. I. General hypergeometric functions. (Russian) **94d:32053**
Lehmann, Daniel Des différences de résidus et une identité remarquable. [Differences of residues and a remarkable identity] **94i:32060**
Olivares-Vázquez, J. On vector fields in $\mathbb{C}^3$ without a separatrix. (English summary) **94a:32057**
Sánchez-Bringas, Federico Normal forms of invariant vector fields under a finite group action. (English summary) **94h:32067**
Seade, José A. *see* **Gómez-Mont, Xavier; et al., 94k:32063**
Sebastiani, Marcos Une propriété des solutions analytiques d'un champ de vecteurs. (English and French summaries) [On the analytic solutions of a vector field] **94f:32076**
Trifonov, S. I. Resolution of singularities in one-parameter analytic families of differential equations. **94b:32063**
Verjovsky, Alberto *see* **Gómez-Mont, Xavier; et al., 94k:32063**

Items with secondary classifications in 32S65

Elizarov, P. M. Tangents to moduli maps. **94d:32032**
Il'yashenko, Yu. S. Nonlinear Stokes phenomena. **94d:32031**
Lehmann, Daniel Remarques sur la différence des degrés de deux applications. [Remarks on the difference between the degrees of two mappings] **94f:57024**

32S70 Other operations on singularities

Elizarov, P. M. (*with* Il'yashenko, Yu. S.; Shcherbakov, A. A.; Voronin, S. M.) Finitely generated groups of germs of one-dimensional conformal mappings, and invariants for complex singular points of analytic foliations of the complex plane. **94e:32055**
Il'yashenko, Yu. S. *see* **Elizarov, P. M.; et al., 94e:32055**
Shcherbakov, A. A. *see* **Elizarov, P. M.; et al., 94e:32055**
Voronin, S. M. *see* **Elizarov, P. M.; et al., 94e:32055**

33–XX Special functions {33–XX deals with the properties of functions as functions. For orthogonal functions, see also 42Cxx; for aspects of combinatorics, see 05Axx; for number-theoretic aspects, see 11–XX; for representation theory, see 22Exx.}

33–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Mathai, A. M. ★ A handbook of generalized special functions for statistical and physical sciences. **94g:33001**

Items with secondary classifications in 33–00

(Abramowitz, Milton) *see* **Handbook: Mathematical functions with formulas, graphs, and mathematical tables, 94b:00012**
Gradshtein, I. S. (*with* Ryzhik, I. M.) Table errata: *Table of integrals, series, and products* [Academic Press, Boston, 1994; MR 94g:00008].
— (*with* Ryzhik, I. M.) ★ Table of integrals, series, and products. **94g:00008**
(Jeffrey, Alan) *see* **Gradshtein, I. S., 94g:00008**
Ryzhik, I. M. *see* **Gradshtein, I. S., 94g:00008**
(Stegun, Irene A.) *see* **Handbook: Mathematical functions with formulas, graphs, and mathematical tables, 94b:00012**

Items listed otherwise than by author

Handbook:
Mathematical functions with formulas, graphs, and mathematical tables ★ Handbook of mathematical functions with formulas, graphs, and mathematical tables. **94b:00012**

33–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 33–01

Vvedensky, Dimitri ★ Partial differential equations with Mathematica. (English summary) **94e:35003**

33–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 33–02

Anderson, G. D. (*with* Vamanamurthy, M. K.; Vuorinen, Matti) Conformal invariants, quasiconformal maps, and special functions. (*see* **94c:30030**)
Askey, Richard A. Problems which interest and/or annoy me. (English summary) **94j:33005**
Nguyễn Thanh Hài (*with* Yakubovich, S. B.) ★ The double Mellin-Barnes type integrals and their applications to convolution theory. **94c:33024**
Vamanamurthy, M. K. *see* **Anderson, G. D.; et al., (94c:30030)**
Vuorinen, Matti *see* **Anderson, G. D.; et al., (94c:30030)**
Yakubovich, S. B. *see* **Nguyễn Thanh Hài, 94c:33024**

33–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 33–03

Pecot, Jean-Bernard Le problème de l'ellipsoïde et l'analyse harmonique: la controverse entre Legendre et Laplace. [The problem of the ellipsoid and harmonic analysis: the controversy between Legendre and Laplace] **94m:01018**

33–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 33–04

Kalla, Shyam L. On the evaluation of the Gauss hypergeometric function. **94a:33001**
MacLeod, Allan J. Table-based tests for Bessel function software. (English summary) **94m:65006**

33–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 33–06

(Chebyshev, P. L.) *see* **Topics in polynomials of one and several variables and their applications, 94m:00020**
(Dehesa, J. S.) *see* **Proceedings: Symposium on Orthogonal Polynomials and Applications, 94e:42001**
(Rassias, Themistocles M.) *see* **Topics in polynomials of one and several variables and their applications, 94m:00020**
(Srivastava, Hari M.) *see* **Topics in polynomials of one and several variables and their applications, 94m:00020**
(Yanushauskas, A. I.) *see* **Topics in polynomials of one and several variables and their applications, 94m:00020**

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Biography:
Chebyshev, P. L. ★ Topics in polynomials of one and several variables and their applications. **94m:00020**

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33Bxx Elementary classical functions

33B10 Exponential and trigonometric functions

Ismail, Mourad E. H. (*with* Takeuchi, Yu; Zhang, Ruiming) Pages from the computer files of R. William Gosper. (English summary) **94h:33001**
Miller, Allen R. (*with* Srivastava, Hari M.) On Glaisher's infinite sums involving the inverse tangent function. **94b:33001**
Srivastava, Hari M. *see* **Miller, Allen R., 94b:33001**
Takeuchi, Yu *see* **Ismail, Mourad E. H.; et al., 94h:33001**
Zayed, Ahmed I. A new role of sampling theory in the theory of special functions. (English summary) **94b:33002**
Zhang, Ruiming *see* **Ismail, Mourad E. H.; et al., 94h:33001**

Items with secondary classifications in 33B10

Das, Mrinal Kanti Analysis of two elementary functions.
Filipponi, Piero Real Fibonacci and Lucas numbers with real subscripts. **94j:11014**
Fleury, N. (*with* Rausch de Traubenberg, M.; Yamaleev, R. M.) Commutative extended complex numbers and connected trigonometry. (English summary) **94m:30093**
Hosoya, Haruo Symmetrical combination of the sums and products of trigonometric functions giving integers. **94d:11008**
Rausch de Traubenberg, M. *see* **Fleury, N.; et al., 94m:30093**
Yamaleev, R. M. *see* **Fleury, N.; et al., 94m:30093**

33B15 Gamma, beta and polygamma functions

Beebee, John Exact covering systems and the Gauss-Legendre multiplication formula for the gamma function. (English summary) **94f:33001**
(Estévez-Bretón, Erika Sabrina) *see* **Znojil, Miloslav**
(Estévez-Bretón, Gentil A.) *see* **Znojil, Miloslav**
Helversen-Pasotto, Anna (*with* Solé, Patrick) Barnes' first lemma and its finite analogue. (English summary) **94m:33001**
Paris, R. B. (*with* Wood, Alastair D.) Exponentially-improved asymptotics for the gamma function. (English summary) **94f:33002**
Solé, Patrick *see* **Helversen-Pasotto, Anna, 94m:33001**
Totik, Vilmos On Hölder's theorem that $\Gamma(x)$ does not satisfy algebraic differential equation. **94i:33001**
Wood, Alastair D. *see* **Paris, R. B., 94f:33002**
Znojil, Miloslav Comment on: "The nonsingular spiked harmonic oscillator" [J. Math. Phys. **34** (1993), no. 2, 437–440; MR 93j:33002] by E. S. Estévez-Bretón and G. A. Estévez-Bretón.

Items with secondary classifications in 33B15

Agrawal, R. D. (*with* Ronghe, Ashok Kumar) Chemical reaction of velocity constant and Fox-function. (Hindi. English and Hindi summaries) **94e:33003**
Alzer, Horst On an inequality of H. Minc and L. Sathre. (English summary) **94k:26021**
Butzer, P. L. (*with* Hauss, M.) Stirling functions of first and second kind; some new applications. **94b:11018**
Choi, K. P. On the medians of gamma distributions and an equation of Ramanujan. (English summary) **94g:62025**
Dunkl, Charles F. Measures of Dirichlet type on regular polygons and their moments. **94b:33018**
Hauss, M. *see* **Butzer, P. L., 94b:11018**
Helversen-Pasotto, Anna Gamma-function and Gaussian-sum-function. **94j:11125**
Kirsten, Klaus Generalized multidimensional Epstein zeta functions. (English summary) **94m:11102**
Kurokawa, Nobushige Multiple zeta functions: an example. **94f:11084**
Ronghe, Ashok Kumar *see* **Agrawal, R. D., 94e:33003**
Sinha, Sunil Kumar[1] Some relations between generalized Struve's functions and hypergeometric functions. (English summary) **94j:33004**

33B20 Incomplete beta and gamma functions (error functions, probability integral, Fresnel integrals)

Srivastava, Hari M. Some applications of fractional calculus involving the gamma and related functions. (English summary) **94m:33002**
Temme, Nico M. Asymptotic inversion of the incomplete beta function. (English summary) **94e:33001**

Items with secondary classifications in 33B20

Howls, C. J. Hyperasymptotics for integrals with finite endpoints. (English summary) **94d:41053**
Sajo, Erno On the recursive properties of Dawson's integral. (English summary) **94k:33045**

33B99 None of the above, but in this section

Borwein, Jonathan M. (*with* Borwein, Peter B.) Inequalities for compound mean iterations with logarithmic asymptotes. (English summary) **94f:33003**
Borwein, Peter B. *see* **Borwein, Jonathan M., 94f:33003**
Coonce, H. B. Permutable polynomials for several variables. (English summary) **94g:33002**
Lewin, L. Further results on supernumary polylogarithmic ladders. (English summary) **94k:33001**

Items with secondary classifications in 33B99

Kuniba, Atsuo (*with* Nakanishi, Tomoki) Spectra in conformal field theories from the Rogers dilogarithm. (English summary) **94c:81185**
Miller, Kenneth S. Fractional differential equations. (English summary) **94a:34009**
Nakanishi, Tomoki *see* **Kuniba, Atsuo, 94c:81185**

33Cxx Hypergeometric functions

33C05 Classical hypergeometric functions, ${}_2F_1$

Chakrabarty, Ratna (*with* Hazra, M.) Some generating functions of hypergeometric functions from the viewpoint of one parameter continuous transformation group. (English summary) **94d:33001**
Hazra, M. *see* **Chakrabarty, Ratna, 94d:33001**
Kalla, Shyam L. On the evaluation of the Gauss hypergeometric function. **94a:33001**
Nishimoto, Katsuyuki (*with* Srivastava, Hari M.; Tu, Shih T'ung) Application of fractional calculus in solving certain classes of Fuchsian differential equations. (English summary) **94c:33001**
Srivastava, Hari M. *see* **Nishimoto, Katsuyuki; et al., 94c:33001**
Tu, Shih T'ung *see* **Nishimoto, Katsuyuki; et al., 94c:33001**
Wang, Q.-Q. *see* **Wong, Roderick, 94f:33004**
Wong, Roderick (*with* Wang, Q.-Q.) On the asymptotics of the Jacobi function and its zeros. (English summary) **94f:33004**

Items with secondary classifications in 33C05

Agrawal, N. K. *see* **Mahato, Anil Kumar; et al., 94b:44006**
Anderson, G. D. (*with* Vamanamurthy, M. K.; Vuorinen, Matti) Conformal invariants, quasiconformal maps, and special functions. (*see* **94c:30030**)
Elbert, Árpád (*with* Laforgia, Andrea) On the zeros of associated polynomials of classical orthogonal polynomials. (English summary) **94j:33009**
Gel'fand, I. M. (*with* Kapranov, M. M.; Zelevinsky, A. V.) Hypergeometric functions, toric varieties and Newton polyhedra. **94b:14053**
González Rodríguez, Benito *see* **Hayek Calil, Nácere, 94j:44010** *and* **94k:44007**
Grin'ko, A. P. Operators of generalized integro-differentiation of fractional order with a hypergeometric Gauss function in the kernel. (Russian. English and Russian summaries) **94h:26009**
Hayek Calil, Nácere (*with* González Rodríguez, Benito) Abelian theorems for the generalized index ${}_2F_1$-transform. (Spanish. English summary) **94j:44010**
— (*with* González Rodríguez, Benito) On the distributional index ${}_2F_1$-transform. (English summary) **94k:44007**
Hsu, Yupai P. Development of a Gaussian hypergeometric function code in complex domains. (English summary) **94f:65007**
Kapranov, M. M. *see* **Gel'fand, I. M.; et al., 94b:14053**
Laforgia, Andrea *see* **Elbert, Árpád, 94j:33009**
Lin, Shy Der *see* **Tu, Shih T'ung; et al., 94i:34011**
Lorentzen, Lisa Computations of hypergeometric functions by means of continued fractions. (English summary) **94b:30007**
— Divergence of continued fractions related to hypergeometric series. (English summary) **94g:40002**
Mahato, Anil Kumar (*with* Mahto, S.; Agrawal, N. K.) Gauss-hypergeometric transform of a class of generalised functions. I. (English summary) **94b:44006**
Mahto, S. *see* **Mahato, Anil Kumar; et al., 94b:44006**
Matsumoto, Keiji (*with* Sasaki, Takeshi; Yoshida, Masaaki) Recent progress of Gauss-Schwarz theory and related geometric structures. **94k:32033**
Nishimoto, Katsuyuki *see* **Tu, Shih T'ung; et al., 94i:34011**
Noor, Khalida Inayat On certain starlike and convex hypergeometric functions. (English summary) **94m:30026**
Owa, Shigeyoshi (*with* Shen, C. Y.) An application of certain linear operator to the generalized hypergeometric functions. **94c:30014**
Peetre, Jaak Comparison of two kinds of Hankel type operators. (English summary) **94i:47043**
Prasad Tiwari, Indramani *see* **Sharma, C. K., 94j:33014**
Raina, R. K. *see* **Srivastava, Hari M.; et al., 94d:44002**
Saigo, Megumi *see* **Srivastava, Hari M.; et al., 94d:44002**
Sasaki, Takeshi *see* **Matsumoto, Keiji; et al., 94k:32033**
Sharma, C. K. (*with* Prasad Tiwari, Indramani) Some results involving the product of generalized hypergeometric functions, Jacobi polynomials and the I-function. **94j:33014**
Shen, C. Y. *see* **Owa, Shigeyoshi, 94c:30014**
Shima, Kazuhisa On the monodromy representation of a reducible hypergeometric differential equation. **94a:34008**
Srivastava, Hari M. (*with* Saigo, Megumi; Raina, R. K.) Some existence and connection theorems associated with the Laplace transform and a certain class of integral operators. (English summary) **94d:44002**
Takayama, Nobuki Propagation of singularities of solutions of the Euler-Darboux equation and a global structure of the space of holonomic solutions. I. **94g:35166**
— Propagation of singularities of solutions of the Euler-Darboux equation and a global structure of the space of holonomic solutions. II. **94k:35237**
Tu, Shih T'ung (*with* Nishimoto, Katsuyuki; Lin, Shy Der) Extension of general second order differential equations of Fuchs type to the higher order by fractional calculus method. (English summary) **94i:34011**

Vamanamurthy, M. K. *see* **Anderson, G. D.; et al., (94c:30030)**
Vuorinen, Matti *see* **Anderson, G. D.; et al., (94c:30030)**
Yoshida, Masaaki *see* **Matsumoto, Keiji; et al., 94k:32033**
Zeilberger, Doron Theorems for a price: tomorrow's semi-rigorous mathematical culture. **94i:00007**
Zelevinsky, A. V. *see* **Gel'fand, I. M.; et al., 94b:14053**

33C10 Bessel and Airy functions, cylinder functions, ${}_0F_1$

Babich, V. M. An April Fools' Day note. Little-known information about the Bessel equation. (Russian) **94d:33002**
Bajpai, S. D. A special class of two-dimensional exponential-Bessel series of Fox's H-function. (English summary) **94f:33005**
Balla, K. (*with* Guk, O. S.; Vicsek, M.) On the computation of Bessel functions of first kind. (English and German summaries) **94c:33002**
Chicconi, C. *see* **Dattoli, G.; et al., 94c:33003; 94f:33006** *and* **94i:33002**
Dattoli, G. (*with* Mari, C.; Torre, Amalia; Chicconi, C.; Lorenzutta, S.; Maino, Giuseppe) Analytical and numerical results on M-variable generalized Bessel functions. (English summary) **94c:33003**
— (*with* Chicconi, C.; Lorenzutta, S.; Maino, Giuseppe; Richetta, M.; Torre, Amalia) Graf-type theorem for Laguerre and Legendre functions. (English summary) **94f:33006**
— (*with* Chicconi, C.; Lorenzutta, S.; Maino, Giuseppe; Richetta, M.; Torre, Amalia) Advances on the theory of generalized Bessel functions and applications to multiphoton processes. (English summary) **94i:33002**
Dorta Díaz, J. A. (*with* Méndez Pérez, J. M. R.) Finite Hankel-Clifford transformations of the first kind of arbitrary order. (English summary) **94h:33002**
Gavrichenko, L. P. (*with* Pak, I. N.) On roots of sums of certain series in Bessel functions of the second kind and in Anger and Weber functions. (Russian. Russian summary) **94f:33007**
Giordano, Carla (*with* Rodonò, Lucia G.) Further monotonicity and convexity properties of the zeros of cylinder functions. (English summary) **94b:33003**
González Rodríguez, José Manuel New properties of di-Bessel function of Exton. (English and Spanish summaries) **94a:33002**
Guk, O. S. *see* **Balla, K.; et al., 94c:33002**
Ifantis, E. K. (*with* Siafarikas, P. D.) A differential inequality for the positive zeros of Bessel functions. (English summary) **94a:33003**
Kalla, Shyam L. *see* **Steinacker, Ulrike; et al., 94a:33006**
Khriptun, M. D. A generalized integral theorem of Neumann type for a generalization of Bessel functions. (Russian. Russian summary) (*see* **94e:00015**)
Kokologiannaki, C. G. (*with* Siafarikas, P. D.) An alternative proof of the monotonicity of $j'_{\nu,1}$. (Italian summary) **94j:33001**
Laforgia, Andrea (*with* Mathis, Maria Luisa) Additional monotonicity results for the zeros of Bessel functions. (English summary) **94k:33002**
Leubner, C. *see* **Steinacker, Ulrike; et al., 94a:33006**
Lorch, Lee Some monotonicity properties associated with the zeros of Bessel functions. (English summary) **94a:33004**
— On Bessel functions of equal order and argument. (English summary) **94k:33003**
Lorenzutta, S. *see* **Dattoli, G.; et al., 94c:33003; 94f:33006** *and* **94i:33002**
Maino, Giuseppe *see* **Dattoli, G.; et al., 94c:33003; 94f:33006** *and* **94i:33002**
Mari, C. *see* **Dattoli, G.; et al., 94c:33003**
Mathis, Maria Luisa *see* **Laforgia, Andrea, 94k:33002**
Méndez Pérez, J. M. R. *see* **Dorta Díaz, J. A., 94h:33002**
Misvely, Bermúdez A note on series of modified Bessel functions. (Spanish. English and Spanish summaries) **94j:33002**
Muldoon, Martin E. Approximate distribution density of zeros of Bessel functions. (English summary) **94a:33005**
Németh, Géza ★ Mathematical approximation of special functions. **94k:33004**
Pak, I. N. Sums of series in Bessel functions. (Russian) **94m:33003**
— *see also* **Gavrichenko, L. P., 94f:33007**
Piquette, Jean C. Explicit expressions for certain indefinite integrals containing the product of two Bessel functions or the square of a Legendre function. (English summary) **94i:33003**
Richetta, M. *see* **Dattoli, G.; et al., 94f:33006** *and* **94i:33002**
Rodonò, Lucia G. *see* **Giordano, Carla, 94b:33003**
Siafarikas, P. D. *see* **Ifantis, E. K., 94a:33003** *and* **Kokologiannaki, C. G., 94j:33001**
Sibuya, Yasutaka A remark on Bessel functions. (English summary) **94k:33005**
Steinacker, Ulrike (*with* Leubner, C.; Kalla, Shyam L.) Uniform asymptotic expansions of a class of incomplete cylindrical functions. (English summary) **94a:33006**
Svishchev, Yu. V. Calculation of coefficients in addition theorems for spherical wave functions and Debye potentials. (Russian. Russian summary) **94f:33008**
du Toit, C. F. Bessel functions $J_n(z)$ and $Y_n(z)$ of integer order and complex argument. (English summary) **94m:33004**
Torre, Amalia *see* **Dattoli, G.; et al., 94c:33003; 94f:33006** *and* **94i:33002**
Vicsek, M. *see* **Balla, K.; et al., 94c:33002**
Whelan, Colm T. On the evaluation of integrals over three spherical Bessel functions. (English summary) **94i:33004**

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Asai, Nobuyoshi *see* **Ikebe, Yasuhiko; et al., 94g:47025**
Ashbaugh, Mark S. (*with* Benguria, Rafael D.) Universal bounds for the low eigenvalues of Neumann Laplacians in n dimensions. (English summary) **94b:35191**
Bajpai, S. D. (*with* Mishra, Sadhana) Bessel-exponential partial differential equation and Fox's H-function. **94a:35024**
Benguria, Rafael D. *see* **Ashbaugh, Mark S., 94b:35191**
Betancor, Jorge J. Abelian theorems for a generalized Hankel transformation. (English summary) **94d:44003**
Candelpergher, B. (*with* Nosmas, J.-C.; Pham, F.) Premiers pas en calcul étranger. (English and French summaries) [First steps in alien calculus] **94f:34104**
Company, R. *see* **Navarro, E.; et al., 94i:34014**
Dunster, T. M. (*with* Lutz, D. A.; Schäfke, R.) Convergent Liouville-Green expansions for second-order linear differential equations, with an application to Bessel functions. (English summary) **94d:34007**
Elizalde, E. (*with* Leseduarte, S.; Romeo, August) Sum rules for zeros of Bessel functions and an application to spherical Aharonov-Bohm quantum bags. (English summary) **94e:81038**
Fernández de Córdoba, P. *see* **Ratis, Yu. L., 94b:65030**
Förster, Klaus-Jürgen (*with* Petras, Knut) Inequalities for the zeros of ultraspherical polynomials and Bessel functions. **94j:33020**
Fujishiro, Issei *see* **Ikebe, Yasuhiko; et al., 94g:47025**
Gaudin, M. *see* **Pasquier, V., 94a:82023**
González-Vera, Pablo *see* **Hayek Calil, Nácere; et al., 94c:65026**
Harada, Minoru *see* **Ikebe, Yasuhiko; et al., 94g:47025**
Hayek Calil, Nácere (*with* González-Vera, Pablo; Pérez-Acosta, F.) Rational approximation to Neumann series of Bessel functions. (English summary) **94c:65026**
— (*with* Pérez-Acosta, F.) Asymptotic expressions for the Dirac delta function in terms of the Bessel-Clifford functions. (English summary) **94e:46071**
Howard, F. T. The sum of the mth powers of the zeros of the generalized Bessel polynomial. (English summary) **94c:33009**
Howls, C. J. Hyperasymptotics for integrals with finite endpoints. (English summary) **94d:41053**
Ikebe, Yasuhiko (*with* Kikuchi, Yasushi; Fujishiro, Issei; Asai, Nobuyoshi; Takanashi, Kouichi; Harada, Minoru) The eigenvalue problem for infinite compact complex symmetric matrices with application to the numerical computation of complex zeros of $J_0(z) - iJ_1(z)$ and of Bessel functions $J_m(z)$ of any real order m. (English summary) **94g:47025**
Jódar, Lucas *see* **Navarro, E.; et al., 94i:34014**
Kikuchi, Yasushi *see* **Ikebe, Yasuhiko; et al., 94g:47025**
Langer, Heinz (*with* Mennicken, Reinhard; Möller, Manfred; Sattler, Alfred) Expansions of analytic functions in products of Bessel functions. **94i:34156**
Leseduarte, S. *see* **Elizalde, E.; et al., 94e:81038**
Lutz, D. A. *see* **Dunster, T. M.; et al., 94d:34007**
MacLeod, Allan J. Table-based tests for Bessel function software. (English summary) **94m:65006**
Mennicken, Reinhard *see* **Langer, Heinz; et al., 94i:34156**
Mishra, Sadhana *see* **Bajpai, S. D., 94a:35024**
Möller, Manfred On the Carlitz expansion in products of Bessel functions. **94i:34157**
— *see also* **Langer, Heinz; et al., 94i:34156**
Muldoon, Martin E. Properties of zeros of orthogonal polynomials and related functions. (English summary) **94j:33013**
Navarro, E. (*with* Company, R.; Jódar, Lucas) Bessel matrix differential equations: explicit solutions of initial- and two-point boundary value problems. (English summary) **94i:34014**
Nosmas, J.-C. *see* **Candelpergher, B.; et al., 94f:34104**
Pasquier, V. (*with* Gaudin, M.) The periodic Toda chain and a matrix generalization of the Bessel function recursion relations. (English summary) **94a:82023**
Pérez-Acosta, F. *see* **Hayek Calil, Nácere; et al., 94c:65026** *and* **94e:46071**
Petras, Knut *see* **Förster, Klaus-Jürgen, 94j:33020**
Pham, F. *see* **Candelpergher, B.; et al., 94f:34104**
Plotkin, D. Ya. *see* **Turbin, A. F., 94e:35045**
Ratis, Yu. L. (*with* Fernández de Córdoba, P.) A code to calculate (high order) Bessel functions based on the continued fractions method. (English summary) **94b:65030**
Romeo, August *see* **Elizalde, E.; et al., 94e:81038**
Sattler, Alfred *see* **Langer, Heinz; et al., 94i:34156**
Schäfke, R. *see* **Dunster, T. M.; et al., 94d:34007**
Shawagfeh, N. T. The Laplace transforms of products of Airy functions. (English and Arabic summaries) **94d:44004**
Skinner, L. A. Matched asymptotic expansions of integrals. (English summary) **94e:41043**
Takanashi, Kouichi *see* **Ikebe, Yasuhiko; et al., 94g:47025**
Tanuma, Kazumi Caustics in whispering gallery waves. (Japanese) **94d:35089**
Turbin, A. F. (*with* Plotkin, D. Ya.) Higher-order Bessel equation and functions. (Russian. Russian summary) **94e:35045**
Volchkov, V. V. New mean-value theorems for solutions of the Helmholtz equation. (Russian. Russian summary) **94h:35043**

33C15 Confluent hypergeometric functions, Whittaker functions, ${}_1F_1$

Bajpai, S. D. Some formulae involving Hermite polynomial, confluent hypergeometric function and Meijer's G-function. (English summary) **94m:33005**
Chu, Wen Chang Symmetry on Pfaff-Saalschütz-Sheppard series. (English summary) **94f:33009**
Noor, Khalida Inayat The order of starlikeness and convexity of confluent hypergeometric functions. (English summary) **94b:33004**
Olde Daalhuis, Adri B. Hyperasymptotic expansions of confluent hypergeometric functions. (English summary) **94e:33002**
— Hyperasymptotics and the Stokes' phenomenon. (English summary) **94i:33005**

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Badralexe, Eugene *see* **Marksteiner, P.; et al.**
Freeman, A. J. *see* **Marksteiner, P.; et al.**
Haraoka, Yoshishige *see* **Kimura, Hironobu; et al., 94c:33005**
Kimura, Hironobu (*with* Haraoka, Yoshishige; Takano, Kyoichi) The generalized confluent hypergeometric functions. **94c:33005**
Marksteiner, P. (*with* Badralexe, Eugene; Freeman, A. J.) Neumann-type expansion of Coulomb functions. (English summary)
Olver, Frank W. J. Exponentially-improved asymptotic solutions of ordinary differential equations. I. The confluent hypergeometric function. (English summary) **94c:34082**
Paris, R. B. Smoothing of the Stokes phenomenon using Mellin-Barnes integrals. (English summary) **94e:41042**

Sajo, Erno On the recursive properties of Dawson's integral. (English summary) **94k:33045**
Takano, Kyoichi *see* **Kimura, Hironobu; et al., 94c:33005**

33C20 Generalized hypergeometric series, ${}_pF_q$

Agrawal, R. D. (*with* Ronghe, Ashok Kumar) Chemical reaction of velocity constant and Fox-function. (Hindi. English and Hindi summaries) **94e:33003**
Arora, Kamal *see* **Lavoie, J.-L.; et al., 94e:33004**
Bradley, David On a claim of Ramanujan about certain hypergeometric series. (English summary) **94j:33003**
Choi, Jae Ho *see* **Kim, Yong Chan; et al., 94k:33006**
Grondin, F. *see* **Lavoie, J.-L.; et al., 94e:33004**
Haraoka, Yoshishige *see* **Kimura, Hironobu; et al., 94c:33005**
Hayek Calil, Nácere (*with* Hernández Suárez, Víctor) On third-order Bessel-Clifford functions. (Spanish. English and Spanish summaries) **94f:33010**
— (*with* Hernández Suárez, Víctor) Integral representations of third-order Bessel-Clifford functions. (Spanish. English summary) **94c:33004**
Hernández Suárez, Víctor *see* **Hayek Calil, Nácere, 94c:33004** *and* **94f:33010**
Kim, Yong Chan (*with* Choi, Jae Ho; Srivastava, Hari M.) Some one-parameter families of integral operators and their applications to a certain class of generalized hypergeometric functions. (English summary) **94k:33006**
Kimura, Hironobu (*with* Haraoka, Yoshishige; Takano, Kyoichi) The generalized confluent hypergeometric functions. **94c:33005**
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— Some formulae involving Hermite polynomial, confluent hypergeometric function and Meijer's G-function. (English summary) **94m:33005**
— A special class of two-dimensional exponential-Bessel series of Fox's H-function. (English summary) **94f:33005**
— (*with* Mishra, Sadhana) Bessel-exponential partial differential equation and Fox's H-function. **94a:35024**
— A new orthogonality property for the Jacobi polynomials and its applications. (English summary) **94e:33006**
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Delgado, E. (*with* Rodríguez, J.) A generalization of the Meijer integral transforms. (Spanish. English and Spanish summaries) **94j:44008**
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— A unified multiple fractional integral formula. (English summary) **94b:44005**
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33C65 Appell, Horn and Lauricella functions

Bissu, S. K. *see* **Joshi, C. M., 94a:33016**
Buschman, R. G. *see* **Vũ Kim Tuấn, 94a:33017**
Cohen, Paula Beazley (*with* Wolfart, Jürgen) Algebraic Appell-Lauricella functions. (English summary) **94f:33024**
Germano, B. (*with* Ricci, Paolo Emilio) Umbral calculus and orthonormal systems. (Italian. English and Italian summaries) **94f:33025**
Joshi, C. M. (*with* Bissu, S. K.) On the inequalities of Appell functions. (Italian summary) **94a:33016**
Kato, Mitsuo The Riemann problem for Appell's F_4. **94j:33025**
Moses, Harry E. (*with* Prosser, Reese T.) Bounds for the Appell function F_2. (English summary) **94c:33022**
Nigam, S. K. Generating function for Jacobi, Laguerre and generalized Rice polynomials. (Hindi. English and Hindi summaries) **94c:33023**
Prosser, Reese T. *see* **Moses, Harry E., 94c:33022**
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Vũ Kim Tuấn (*with* Buschman, R. G.) Integral representations of generalized Lauricella hypergeometric functions. (English summary) **94a:33017**
Wolfart, Jürgen *see* **Cohen, Paula Beazley, 94f:33024**

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Dunkl, Charles F. Measures of Dirichlet type on regular polygons and their moments. **94b:33018**
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Retakh, V. S. *see* **Gel'fand, I. M.; et al., 94k:33030**
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33C70 Other hypergeometric functions and integrals in several variables

Agrawal, R. D. *see* **Singh Chandel, R. C.; et al., 94f:33027**
Agrawal, Shashi *see* **Singh Chandel, R. C., 94k:33034**
Bissu, S. K. *see* **Joshi, C. M., 94h:33006**
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Exton, Harold New generating relations for products of two Laguerre polynomials. (English summary) **94k:33029**
Gaur, Neelima A finite double integral involving a general multivariable polynomial and the multivariable H-function. (English summary) **94j:33026**
Gel'fand, I. M. (*with* Graev, M. I.; Retakh, V. S.) General hypergeometric systems of equations and series of hypergeometric type. (Russian. Russian summary) **94h:33005**

— (*with* Graev, M. I.) GG-functions. (Russian) **94j:33027**
— (*with* Graev, M. I.; Retakh, V. S.) Reduction formulas for hypergeometric functions associated with the Grassmannian $G_{k,n}$ and description of these functions on strata of small codimension in $G_{k,n}$. (English summary) **94k:33030**
Govil, Narendra K. (*with* Manocha, H. L.) The Lie theory of hypergeometric functions arising from $(1-\sum_{j=1}^{k} z_j)^{\lambda}(1-\sum_{j=k+1}^{r} z_j)^{-\lambda}$. **94e:33022**
Graev, M. I. *see* **Gel'fand, I. M.; et al., 94h:33005**; **94j:33027** *and* **94k:33030**
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Kabe, D. G. On some multiple integrals involving hypergeometric functions of matrix arguments. (English summary) **94f:33026**
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Matsumoto, Keiji (*with* Sasaki, Takeshi; Takayama, Nobuki; Yoshida, Masaaki) Monodromy of the hypergeometric differential equation of type (3, 6). I. **94h:33009**
Mishra, Sadhana Integrals involving Bessel polynomials, hypergeometric series and Fox's H-function, and Fourier-Bessel polynomial expansions for products of generalized hypergeometric functions. (English summary) **94k:33031**
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Nigam, S. K. On some new results involving double and triple hypergeometric functions. (English summary) **94k:33032**
Pareek, R. S. Certain multiple integrals involving a general class of multivariable polynomials and H-functions with applications. (English summary) **94b:33017**
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Singh, Dudh Nath (*with* Singh, R. K.) Some integral representations for the polynomial set $T_n(x, y)$. (English summary) **94a:33018**
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Singh Chandel, R. C. (*with* Agrawal, Shashi) Binomial analogues of the class of addition theorems of Srivastava, Lavoie and Tremblay. (English summary) **94k:33034**
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Dilcher, Karl (*with* Stolarsky, Kenneth B.) Sequences of polynomials whose zeros lie on fixed lemniscates. (English summary) **94b:30009**
Graev, M. I. General hypergeometric functions. (Russian) **94d:32053**
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Saxena, Ram Kishore (*with* Ramawat, Anil; Singh, Yashwant) Multidimensional fractional integration operators associated with multivariable I-function. (English summary) **94f:26005**
Singh, Yashwant *see* **Saxena, Ram Kishore; et al., 94f:26005**
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33C75 Elliptic integrals as hypergeometric functions

Shen, Li-Chien On a definite integral of a hypergeometric function. (English summary) **94f:33028**

33C80 Connections with groups, algebras, root systems and related topics

Beerends, R. J. Some special values for the BC type hypergeometric function. **94c:33027**
— (*with* Opdam, E. M.) Certain hypergeometric series related to the root system BC. **94e:33024**
Brambilla, Nora (*with* Montaldi, Emilio) On the connection between continuous Hahn polynomials and the Heisenberg algebra. (English summary) **94i:33016**
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Crivelli, M. (*with* Felder, G.; Wieczerkowski, C.) Generalized hypergeometric functions on the torus and the adjoint representation of $U_q(\mathrm{sl}_2)$. (English summary) **94j:33028**
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Faraut, Jacques Fonctions de Legendre sur une algèbre de Jordan. (French summary) [Legendre functions on a Jordan algebra] **94e:33025**
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Gross, Kenneth I. (*with* Richards, Donald St. P.) Constant term identities and hypergeometric functions on spaces of Hermitian matrices. (English summary) **94j:33029**
Guhr, Thomas Fourier-Bessel analysis for ordinary and graded 2×2 Hermitian matrices. (English summary) **94e:33026**
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Klimyk, A. U. Kravchuk polynomials and group representation. (Ukrainian. Russian and Ukrainian summaries) **94f:33029**
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Matsuo, Atsushi Integrable connections related to zonal spherical functions. (English summary) **94g:33013**
Micu, M. Continuous Hahn polynomials. (English summary) **94i:33018**
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Opdam, E. M. An analogue of the Gauss summation formula for hypergeometric functions related to root systems. **94c:33029**
— *see also* **Beerends, R. J., 94e:33024**
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Ancarani, L. U. New sum rules for Racah and Clebsch-Gordan coefficients. (English summary) **94j:81060**
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— Generalization of Nishimoto's third order differential equation by fractional calculus method. (English summary)
— (*with* Tu, Shih T'ung) Fractional calculus method to a generalized linear second order (nonhomogeneous and homogeneous) ordinary differential equation of Fuchs type. (English summary)
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Geronimo, Jeffrey S. Scattering theory, orthogonal polynomials, and q-series. (English summary) **94m:42052**
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Jones, William B. (*with* Magnus, Arne; Thron, W. J.) PC-fractions and orthogonal Laurent polynomials for log-normal distributions. (English summary) **94f:44009**
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Koelink, H. T. Hansen-Lommel orthogonality relations for Jackson's q-Bessel functions. (English summary) **94g:33017**
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Gupta, Ram Krishna *see* **Saxena, Ram Kishore, 94c:33033**
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Lilly, Glenn M. (*with* Milne, Stephen C.) The C_l Bailey transform and Bailey lemma. (English summary) **94m:33013**
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Saxena, Ram Kishore (*with* Gupta, Ram Krishna) Expansions of multiple basic hypergeometric functions. (English summary) **94c:33034**
— *see also* **Kumar, Rajendra[2]; et al., 94d:33016**
Srivastava, Hari M. *see* **Kumar, Rajendra[2]; et al., 94d:33016**

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Aomoto, Kazuhiko (*with* Kato, Yoshifumi) A q-analogue of de Rham cohomology associated with Jackson integrals. **94f:14017**
Gel'fand, I. M. (*with* Graev, M. I.; Retakh, V. S.) General hypergeometric systems of equations and series of hypergeometric type. (Russian. Russian summary) **94h:33005**
— (*with* Graev, M. I.) GG-functions. (Russian) **94j:33027**
Graev, M. I. *see* **Gel'fand, I. M.; et al., 94h:33005** *and* **94j:33027**
Gustafson, Robert A. Some q-beta and Mellin-Barnes integrals on compact Lie groups and Lie algebras. **94c:33032**
Kato, Yoshifumi *see* **Aomoto, Kazuhiko, 94f:14017**
Retakh, V. S. *see* **Gel'fand, I. M.; et al., 94h:33005**

33D80 Connections with groups, algebras, and related topics

Floreanini, Roberto (*with* Vinet, Luc) Using quantum algebras in q-special function theory. (English summary) **94f:33032**
— (*with* Vinet, Luc) A quantum algebraic interpretation of the basic hypergeometric series ${}_r\Phi_s$. (*see* **94i:81004**)
— (*with* Lapointe, Luc; Vinet, Luc) A note on (p, q)-oscillators and bibasic hypergeometric functions. (English summary) **94j:33033**
— (*with* Vinet, Luc) On the quantum group and quantum algebra approach to q-special functions. (English summary) **94e:33040**
Granovskii, Ya. I. (*with* Zhedanov, A. S.) Spherical q-functions. (English summary) **94h:33012**
Groza, V. A. An analogue of the Burchnall-Chaundy formula for basic hypergeometric functions. (Ukrainian. Russian and Ukrainian summaries) **94b:33021**
— Quantum algebras, Kravchuk q-polynomials, and Kravchuk-Meixner q-functions. (Ukrainian. Russian and Ukrainian summaries) **94f:33033**
Kadell, Kevin W. J. A proof of the q-Macdonald-Morris conjecture for BC_n. **94h:33013**
Lapointe, Luc *see* **Floreanini, Roberto; et al., 94j:33033**
Mimachi, Katsuhisa *see* **Noumi, Masatoshi, 94f:33034**
Noumi, Masatoshi (*with* Mimachi, Katsuhisa) Askey-Wilson polynomials as spherical functions on $SU_q(2)$. **94f:33034**
Rideau, Guy (*with* Winternitz, Pavel) Representations of the quantum algebra $su_q(2)$ on a real two-dimensional sphere. (English summary) **94j:33034**
Takebayashi, Tadayoshi *see* **Ueno, Kimio, 94i:33026**
Ueno, Kinio (*with* Takebayashi, Tadayoshi) Zonal spherical functions on quantum symmetric spaces and Macdonald's symmetric polynomials. (English summary) **94i:33026**

Vinet, Luc *see* **Floreanini, Roberto, 94e:33040; 94f:33032; 94j:33033** *and* **(94i:81004)**
Winternitz, Pavel *see* **Rideau, Guy, 94j:33034**
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Alimohammadi, M. (*with* Arfaei, H.) Level-one SU(N) WZNW models on higher-genus Riemann surfaces. (English summary) **94i:81112**
Arfaei, H. *see* **Alimohammadi, M., 94i:81112**
Askey, Richard A. (*with* Atakishiev, N. M.; Suslov, S. K.) An analog of the Fourier transformation for a q-harmonic oscillator. (English summary) (*see* **94i:81004**)
Atakishiev, N. M. (*with* Suslov, S. K.) Difference hypergeometric functions. (English summary) **94k:33039**
— *see also* **Askey, Richard A.; et al., (94i:81004)**
Chapovsky, Y. A. (*with* Vainerman, L. I.) Hypergroup structures, associated with a pair of quantum groups ($SU_q(n)$, $U_q(n-1)$). (English summary) **94d:81070**
Cherednik, I. V. The Macdonald constant-term conjecture. **94i:17016**
Dasmahapatra, Srinandan (*with* Dedem, R.; Klassen, Timothy R.; McCoy, Barry M.; Melzer, Ezer) Quasi-particles, conformal field theory, and q-series. (English summary) **94k:81249**
Dedem, R. *see* **Dasmahapatra, Srinandan; et al., 94k:81249**
Dunkl, Charles F. Differential-difference operators and monodromy representations of Hecke algebras. (English summary) **94h:32040**
Étingof, P. I. Representations of affine Lie algebras, elliptic r-matrix systems, and special functions. (English summary) **94m:17025**
Feigin, B. L. (*with* Malikov, F. G.) Integral intertwining operators and complex powers of differential and q-difference operators. (English summary) **94k:17044**
Fiore, Gaetano $SO_q(N,\mathbf{R})$-symmetric harmonic oscillator on the N-dim real quantum Euclidean space. (English summary) **94f:81070**
Floreanini, Roberto (*with* Vinet, Luc) Quantum algebras and q-special functions. (English summary) **94d:33014**
— (*with* LeTourneux, Jean; Vinet, Luc) Quantum mechanics and polynomials of a discrete variable. (English summary) **94j:33010**
— (*with* Vinet, Luc) Automorphisms of the q-oscillator algebra and basic orthogonal polynomials. (English summary) **94g:81073**
Frenkel, Igor B. (*with* Reshetikhin, N. Yu.) Quantum affine algebras and holonomic difference equations. **94c:17024**
Freund, Peter G. O. p-adics and q-deformations. **94g:11108**
— (*with* Zabrodin, A. V.) The spectral problem for the q-Knizhnik-Zamolodchikov equation. (English summary) **94g:81074**
Garvan, Frank G. (*with* Gonnet, Gaston H.) A proof of the two parameter q-cases of the Macdonald-Morris constant term root system conjecture for $S(F_4)$ and $S(F_4)^\vee$ via Zeilberger's method. (English summary) **94c:68100**
Gel'fand, I. M. (*with* Graev, M. I.; Retakh, V. S.) Difference analogues and q-analogues of general hypergeometric systems of differential equations. (Russian) **94c:33028**
Gonnet, Gaston H. *see* **Garvan, Frank G., 94c:68100**
Graev, M. I. *see* **Gel'fand, I. M.; et al., 94c:33028**
Granovskiĭ, Ya. I. (*with* Zhedanov, A. S.) Linear covariance algebra for $SL_q(2)$. (English summary) **94e:81123**
(Groza, A. A.) *see* **Vilenkin, N. Ya., 94m:22001**
(Groza, V. A.) *see* **Vilenkin, N. Ya., 94m:22001**
Gustafson, Robert A. Some q-beta and Mellin-Barnes integrals on compact Lie groups and Lie algebras. **94c:33032**
Hebecker, Arthur (*with* Weich, Wolfgang) Free particle in q-deformed configuration space. (English summary) **94f:81072**
Kachurik, I. I. (*with* Klimyk, A. U.) Representations of the q-deformed algebras $U_q(so_{3,1})$, $U_q(so_4)$ and q-orthogonal polynomials. (Russian and Ukrainian summaries) **94g:17023**
Kajiwara, Kenji (*with* Ohta, Yasuhiro; Satsuma, Junkichi) q-discrete Toda molecule equation. (English summary) **94i:58084**
Kalnins, E. G. (*with* Miller, Willard, Jr.; Mukherjee, Sanchita) Models of q-algebra representations: matrix elements of the q-oscillator algebra. (English summary) **94j:17012**
Klassen, Timothy R. *see* **Dasmahapatra, Srinandan; et al., 94k:81249**
Klimyk, A. U. Kravchuk polynomials and group representation. (Ukrainian. Russian and Ukrainian summaries) **94f:33029**
— *see also* **Kachurik, I. I., 94g:17023** *and* **Vilenkin, N. Ya., 94m:22001**
Koornwinder, Tom H. Positive convolution structures associated with quantum groups. **94m:17014**
— Askey-Wilson polynomials for root systems of type BC. (English summary) **94e:33039**
— Askey-Wilson polynomials as zonal spherical functions on the SU(2) quantum group. (English summary) **94k:33042**
Kuniba, Atsuo (*with* Nakanishi, Tomoki; Suzuki, Junji) Characters in conformal field theories from thermodynamic Bethe ansatz. (English summary) **94j:81235**
Lalanne, J.-C. Polyominos parallélogrammes à franges et fonctions de Bessel. (English and French summaries) [Parallelogram polyominos with borders and Bessel functions] **94c:05006**
— Sur une involution sur les chemins de Dyck. (English and French summaries) [On an involution of Dyck paths] **94e:05030**
LeTourneux, Jean *see* **Floreanini, Roberto; et al., 94j:33010**
MacDonald, Gordon Wilson Hilbert spaces of q-shifted factorial series. **94e:46048**
Maekawa, Takayoshi (*with* Mikami, Masato; Yajima, Satoshi) On relation between representations of q-harmonic oscillators and $U_q(\mathrm{U}(n))$. (English summary) **94d:81048**
Malikov, F. G. *see* **Feigin, B. L., 94k:17044**
Matsuo, Atsushi Quantum algebra structure of certain Jackson integrals. (English summary) **94j:39003**
McCoy, Barry M. *see* **Dasmahapatra, Srinandan; et al., 94k:81249**
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Mikami, Masato *see* **Maekawa, Takayoshi; et al., 94d:81048**
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Morozov, A. Yu. (*with* Vinet, Luc) q-hypergeometric functions in the formalism of free fields. (English summary) **94k:81168**
Mukherjee, Sanchita *see* **Kalnins, E. G.; et al., 94j:17012**
Nakanishi, Tomoki *see* **Kuniba, Atsuo; et al., 94j:81235**
Nomura, Masao On quantized quantum-analog rotation functions. (English summary) **94a:81057**
Ohta, Yasuhiro *see* **Kajiwara, Kenji; et al., 94i:58084**
Pan, Feng Racah coefficients of quantum group $U_q(n)$. (English summary) **94k:81126**
Ramis, Jean-Pierre About the solution of some inverse problems in differential Galois theory by Hamburger equations. **94j:12011**
Reshetikhin, N. Yu. Jackson-type integrals, Bethe vectors, and solutions to a difference analog of the Knizhnik-Zamolodchikov system. (English summary) **94g:17031**
— *see also* **Frenkel, Igor B., 94c:17024**
Retakh, V. S. *see* **Gel'fand, I. M.; et al., 94c:33028**
Satsuma, Junkichi *see* **Kajiwara, Kenji; et al., 94i:58084**
Schechtman, Vadim V. (*with* Varchenko, A. N.) Quantum groups and homology of local systems. (English summary) **94j:17022**
Skorik, Sergei (*with* Spiridonov, V. P.) Self-similar potentials and the q-oscillator algebra at roots of unity. (English summary) **94e:58063**
Spiridonov, V. P. (*with* Vinet, Luc; Zhedanov, A. S.) Difference Schrödinger operators with linear and exponential discrete spectra. (English summary) **94k:39031**
— *see also* **Skorik, Sergei, 94e:58063**
Srinivasa Rao, K. Quantum theory of momentum and special functions. **94e:33005**
Suslov, S. K. *see* **Atakishiev, N. M., 94k:33039** *and* **Askey, Richard A.; et al., (94i:81004)**
Suzuki, Junji *see* **Kuniba, Atsuo; et al., 94j:81235**
Vainerman, L. I. *see* **Chapovsky, Y. A., 94d:81070**
Varchenko, A. N. *see* **Schechtman, Vadim V., 94j:17022**
Vilenkin, N. Ya. (*with* Klimyk, A. U.) ★ Representation of Lie groups and special functions. Vol. 2. (English summary) **94m:22001**
Vinet, Luc *see* **Floreanini, Roberto, 94d:33014; 94g:81073; 94j:33010; Spiridonov, V. P.; et al., 94k:39031** *and* **Morozov, A. Yu., 94k:81168**
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Yajima, Satoshi *see* **Maekawa, Takayoshi; et al., 94d:81048**
Zabrodin, A. V. *see* **Freund, Peter G. O., 94g:81074**
Zhedanov, A. S. The Weyl shift for a q-oscillator and a q-polynomial. (Russian. English and Russian summaries) **94d:81082**
— *see also* **Granovskiĭ, Ya. I., 94e:81123** *and* **Spiridonov, V. P.; et al., 94k:39031**

33D90 Applications

Items with secondary classifications in 33D90

Askey, Richard A. (*with* Suslov, S. K.) The q-harmonic oscillator and an analogue of the Charlier polynomials. (English summary) **94j:33031**
Owczarek, Aleksander L. (*with* Prellberg, Thomas) Exact solution of the discrete (1 + 1)-dimensional SOS model with field and surface interactions. (English summary) **94c:82031**
Prellberg, Thomas *see* **Owczarek, Aleksander L., 94c:82031**
Suslov, S. K. *see* **Askey, Richard A., 94j:33031**

33D99 None of the above, but in this section

de Bruin, Marcel G. (*with* Driver, K. A.; Lubinsky, Doron S.) Convergence of simultaneous Hermite-Padé approximants to the n-tuple of q-hypergeometric series $\{{}_1\Phi_1(\binom{1,1}{c,\gamma_j};z)\}_{j=1}^n$. (English summary) **94b:33022**
Driver, K. A. *see* **de Bruin, Marcel G.; et al., 94b:33022**
Khan, Mumtaz Ahmad On generalized fractional q-integrals. (English summary) **94e:33041a**
— Transformations of generalized fractional q-integrals. I. (English summary) **94e:33041b**
— On certain transformations of generalized fractional q-integrals. II. (English summary) **94j:33035**
Lubinsky, Doron S. *see* **de Bruin, Marcel G.; et al., 94b:33022**
Petruska, György On the radius of convergence of q-series. (English summary) **94f:33035**

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Srivastava, Hari M. Univalent functions, fractional calculus, and associated generalized hypergeometric functions. (English summary) **94c:30017**
Zeilberger, Doron Identities in search of identity. (English summary) **94m:05018**

33Exx Other special functions

33E05 Elliptic functions and integrals

Farkas, Hershel M. (*with* Kopeliovich, Yaacov) New theta constant identities. (English summary) **94k:33044**
Kholyavka, Ya. M. Zeros of polynomials of Jacobi elliptic functions. (Ukrainian. Russian and Ukrainian summaries) **94f:33036**
Kopeliovich, Yaacov *see* **Farkas, Hershel M., 94k:33044**
Laforgia, Andrea (*with* Sismondi, Silvana) Some functional inequalities for complete elliptic integrals. (English summary) **94e:33042**
Pevnyĭ, A. B. Calculation of Jacobi elliptic functions by means of the Gauss transformation. (Russian. Russian summary)
Sismondi, Silvana *see* **Laforgia, Andrea, 94e:33042**

Items with secondary classifications in 33E05

Anderson, G. D. (*with* Lehtinen, Matti; Vuorinen, Matti) Conformal invariants in the punctured disk. (English summary) **94k:30043**
Bloß, Detlef Elliptische Funktionen und vollständige Minimalflächen. [Elliptic functions and complete minimal surfaces] **94j:53003**
Bullett, Shaun (*with* Stark, Jaroslav) Renormalizing the simple pendulum. (English summary) **94i:70001**
Chang, Shau-Jin *see* **Crespi, Bruno; et al., 94g:58093**

Crespi, Bruno (*with* Chang, Shau-Jin; Shi, Kang Jie) Elliptical billiards and hyperelliptic functions. (English summary) **94g:58093**
Duma, Andrei (*with* Stoka, Marius) Le problème de Buffon à intersections multiples pour l'ellipse dans le plan euclidien. (English summary) [The Buffon problem with multiple intersections for an ellipse in the Euclidean plane] **94m:60023**
Lehtinen, Matti *see* **Anderson, G. D.; et al., 94k:30043**
Matveev, V. B. (*with* Smirnov, A. O.) Symmetric reductions of the Riemann θ-function and some of their applications to the Schrödinger and Boussinesq equations [MR 89b:58094]. (English summary) (*see* **94g:00020**)
Shi, Kang Jie *see* **Crespi, Bruno; et al., 94g:58093**
Smirnov, A. O. *see* **Matveev, V. B., (94g:00020)**
Stark, Jaroslav *see* **Bullett, Shaun, 94i:70001**
Stoka, Marius *see* **Duma, Andrei, 94m:60023**
Vuorinen, Matti *see* **Anderson, G. D.; et al., 94k:30043**
Zając, Józef Special functions in quasiconformal theory. (English summary) **94f:30031b**
— Functional identities for special functions of quasiconformal theory. (English summary) **94f:30031a**

33E10 Lamé, Mathieu, and spheroidal wave functions

Items with secondary classifications in 33E10

Fukui, Yoshihiko (*with* Horiguchi, Tsuyoshi) Characteristic values of the integral equation satisfied by the Mathieu functions and its application to a system with chirality-pair interaction on a one-dimensional lattice. (English summary) **94e:82017**
Glukhova, M. N. *see* **Vlasov, V. K.; et al., 94k:65027**
Horiguchi, Tsuyoshi *see* **Fukui, Yoshihiko, 94e:82017**
Korolev, L. N. *see* **Vlasov, V. K.; et al., 94k:65027**
Razumovskiĭ, S. N. *see* **Vlasov, V. K.; et al., 94k:65027**
Ulasik, O. L. *see* **Vlasov, V. K.; et al., 94k:65027**
Vlasov, V. K. (*with* Glukhova, M. N.; Korolev, L. N.; Razumovskiĭ, S. N.; Ulasik, O. L.) On the calculation of the Mathieu functions. (Russian) **94k:65027**

33E20 Other functions defined by series and integrals

Ahmad, Munir *see* **Chaudhry, M. Aslam, 94b:33023**
Chaudhry, M. Aslam (*with* Ahmad, Munir) On some infinite integrals involving logarithmic exponential and powers. (English summary) **94b:33023**
Davies, K. T. R. (*with* Glasser, M. L.; Davies, R. W.) Quadrature relations for finite-limit, principal-value integrals. (English and French summaries) **94e:33043**
Davies, R. W. *see* **Davies, K. T. R.; et al., 94e:33043**
Glasser, M. L. *see* **Davies, K. T. R.; et al., 94e:33043**
MacLeod, Allan J. A note on the Randles-Sevcik function from electrochemistry. (English summary) **94i:33027**
Sajo, Erno On the recursive properties of Dawson's integral. (English summary) **94k:33045**

Items with secondary classifications in 33E20

Basor, Estelle L. (*with* Tracy, Craig A.) Asymptotics of a tau-function and Toeplitz determinants with singular generating functions. (English summary) **94e:58148**
Bosch, S. *see* **Carcolé, E.; et al., 94e:65025**
Campos, J. *see* **Carcolé, E.; et al., 94e:65025**
Carcolé, E. (*with* Bosch, S.; Campos, J.) Analytical and numerical approximations in Fresnel diffraction. Procedures based on the geometry of the Cornu spiral. (English summary) **94e:65025**
Goncharov, A. B. The classical polylogarithms, algebraic K-theory and $\zeta_F(n)$. **94k:11126**
Mathai, A. M. Lauricella functions of real symmetric positive definite matrices. (English summary) **94k:33014**
Roman, Steven The harmonic logarithms and the binomial formula. **94i:05007**
Tracy, Craig A. *see* **Basor, Estelle L., 94e:58148**
Wilson, J. C. On Franel-Kluyver integrals of order three. **94m:11116**

33E30 Other functions coming from differential, difference and integral equations

Items with secondary classifications in 33E30

Barlet, Daniel Theory of (a, b)-modules. I. **94h:32056**
Becker, Paul-Georg Transcendence of the values of functions satisfying generalized Mahler type functional equations. **94g:11054**
Gel'fand, I. M. (*with* Graev, M. I.; Retakh, V. S.) Reduction formulas for hypergeometric functions associated with the Grassmannian $G_{k,n}$ and description of these functions on strata of small codimension in $G_{k,n}$. (English summary) **94k:33030**
Graev, M. I. *see* **Gel'fand, I. M.; et al., 94k:33030**
Grammaticos, Basile *see* **Kajiwara, Kenji; et al., 94m:39002**
Haraoka, Yoshishige (*with* Kimura, Hironobu) Contiguity relations of generalized confluent hypergeometric functions. **94j:33018**
— *see also* **Kimura, Hironobu; et al., 94j:33017**
Its, A. R. The Painlevé transcendents as nonlinear special functions. (English summary) **94m:35265**
Kajiwara, Kenji (*with* Ohta, Yasuhiro; Satsuma, Junkichi; Grammaticos, Basile; Ramani, Alfred) Casorati determinant solutions for the discrete Painlevé-II equation. (English summary) **94m:39002**
Kimura, Hironobu (*with* Haraoka, Yoshishige; Takano, Kyoichi) On confluences of the general hypergeometric systems. **94j:33017**
— *see also* **Haraoka, Yoshishige, 94j:33018**
Ohta, Yasuhiro *see* **Kajiwara, Kenji; et al., 94m:39002**
Ramani, Alfred *see* **Kajiwara, Kenji; et al., 94m:39002**
Retakh, V. S. *see* **Gel'fand, I. M.; et al., 94k:33030**
Sajo, Erno On the recursive properties of Dawson's integral. (English summary) **94k:33045**
Satsuma, Junkichi *see* **Kajiwara, Kenji; et al., 94m:39002**
Takano, Kyoichi *see* **Kimura, Hironobu; et al., 94j:33017**

33E99 None of the above, but in this section

Items with secondary classifications in 33E99

Bytsenko, A. A. (*with* Elizalde, E.; Odintsov, S. D.; Zerbini, Sergio) Mellin-Barnes representation for the genus-g finite temperature string theory. (English summary) **94h:81115**
Cvijović, Djurdje (*with* Klinowski, Jacek) The oCLP family of triply periodic minimal surfaces. (English summary) **94b:53018**
Elizalde, E. *see* **Bytsenko, A. A.; et al., 94h:81115**
Hanamura, Masaki (*with* MacPherson, Robert) Geometric construction of polylogarithms. **94h:19005**
Imamura, Kyoki *see* **Matsufuji, Shinya, 94e:94005**
Klinowski, Jacek *see* **Cvijović, Djurdje, 94b:53018**
Kocić, Ljubiša M. Affine families of Bernstein-Bézier operators for CAGD applications. (English summary) **94g:41009**
MacPherson, Robert *see* **Hanamura, Masaki, 94h:19005**
Matsufuji, Shinya (*with* Imamura, Kyoki) Balanced quadriphase sequences with optimal periodic correlation properties constructed by real-valued bent functions. (English summary) **94e:94005**
Odintsov, S. D. *see* **Bytsenko, A. A.; et al., 94h:81115**
Oesterlé, Joseph Polylogarithmes. (French summary) [Polylogarithms] **94m:11135**
Prizva, G. I. A class of polynomials that are close to the Hermite polynomials. (Russian. English and Russian summaries) **94f:33017**
Zerbini, Sergio *see* **Bytsenko, A. A.; et al., 94h:81115**

34–XX Ordinary differential equations

34–01 Instructional exposition (textbooks, tutorial papers, etc.)

Adrianova, L. Ya. ★ Введение в теорию линейных систем дифференциальных уравнений. (Russian. Russian summary) [Introduction to the theory of linear systems of differential equations] **94g:34001**
Biler, Piotr (*with* Nadzieja, Tadeusz) ★ Problems and examples in differential equations. **94b:34001**
Borrelli, Robert L. (*with* Coleman, Courtney S.; Boyce, William E.) ★ Differential equations laboratory workbook. (English summary)
Boyce, William E. *see* **Borrelli, Robert L.; et al.**
Coleman, Courtney S. *see* **Borrelli, Robert L.; et al.**
Ding, Tong Ren (*with* Li, Cheng Zhi[1]) ★ Chang weifen fangcheng jiaocheng. (Chinese. Chinese summary) [A course on ordinary differential equations] **94a:34001**
Dreyer, T. P. ★ Modelling with ordinary differential equations. (English summary)
Griffiths, H. Brian (*with* Oldknow, Adrian) ★ Mathematics of models: continuous and discrete dynamical systems. (English summary) **94g:34002**
Heuser, Harro ★ Gewöhnliche Differentialgleichungen. (German) [Ordinary differential equations] **94a:34002**
Hill, James M. ★ Differential equations and group methods for scientists and engineers. **94d:34001**
Hoppensteadt, Frank C. ★ Analysis and simulation of chaotic systems. (English summary) **94a:34003**
Li, Cheng Zhi[1] *see* **Ding, Tong Ren, 94a:34001**
Nadzieja, Tadeusz *see* **Biler, Piotr, 94b:34001**
Oldknow, Adrian *see* **Griffiths, H. Brian, 94g:34002**
Walter, Wolfgang L. ★ Gewöhnliche Differentialgleichungen. (German. German summary) [Ordinary differential equations]

Items with secondary classifications in 34–01

Bröcker, Theodor ★ Analysis. III. (German. German summary) **94c:00001c**
Deimling, Klaus ★ Multivalued differential equations. **94b:34026**
Drazin, Philip G. ★ Nonlinear systems. **94a:58062**
Luo, Ding Jun (*with* Teng, Li Bang) ★ Qualitative theory of dynamical systems. **94k:58043**
Teng, Li Bang *see* **Luo, Ding Jun, 94k:58043**
Vvedensky, Dimitri ★ Partial differential equations with Mathematica. (English summary) **94e:35003**

34–02 Research exposition (monographs, survey articles)

Daners, Daniel (*with* Koch Medina, Pablo) ★ Abstract evolution equations, periodic problems and applications. (English summary) **94b:34002**
Kartsatos, Athanassios G. ★ Advanced ordinary differential equations. **94m:34001**
Koch Medina, Pablo *see* **Daners, Daniel, 94b:34002**
Kuang, Yang ★ Delay differential equations with applications in population dynamics. **94f:34001**
Leonov, G. A. (*with* Reitmann, Volker; Smirnova, V. B.) ★ Nonlocal methods for pendulum-like feedback systems. (English, French, German and Russian summaries) **94d:34002**
Monteiro Marques, Manuel D. P. ★ Differential inclusions in nonsmooth mechanical problems. (English summary) **94g:34003**
Reitmann, Volker *see* **Leonov, G. A.; et al., 94d:34002**
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Cao, Zhi Jiang Completeness and extension of the classical Sturm-Liouville theory. (Chinese. English and Chinese summaries) **94f:34059**

Chanturiya, T. A. *see* **Kiguradze, I. T., 94e:34037**

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— *see also* **Grebenikov, E. A., 94i:34094**

Nakagiri, Shin-ichi Review of Japanese work of the last ten years on identifiability in distributed parameter systems. (English summary) **94e:35005**

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Samoilenko, A. M. *see* **Mitropol'skiĭ, Yu. A.; et al., 94d:34062**

(Schulenberger, J. R.) *see* **Lomov, S. A., 94c:34084**

Sivasundaram, S. *see* **Lakshmikantham, V.; et al., 94e:34051**

(Tikhonov, A. N.) *see* **Lomov, S. A., 94c:34084**

(Tkachenko, Vadim Aleksandrovich) *see* **Khapaev, Mikhail Mikhailovich, 94d:34050**

Verduyn Lunel, Sjoerd M. *see* **Hale, Jack K., 94m:34169**

34–03 Historical (must also be assigned at least one classification number from Section 01)

Aleksandrova, N. V. On the linear independence of a system of functions in the theory of differential equations. (Russian)

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Demidov, S. S. Theory of differential functions at the turn of the 18th–19th centuries. (Russian)

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Bennett, Stuart ★ A history of control engineering 1930–1955. (English summary) **94m:01024**

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34–04 Explicit machine computation and programs (not the theory of computation or programming)

Huseyin, K. *see* **Wang, S. S., 94i:34001**

Man, Yiu-Kwong Computing closed form solutions of first order ODEs using the Prelle-Singer procedure. (English summary) **94m:34002**

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Barkatou, M. A. An algorithm for computing a companion block diagonal form for a system of linear differential equations. (English summary) **94g:34016**

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34–06 Proceedings, conferences, collections, etc.

(Dolov, M. V.) *see* **Differential and integral equations, 94e:34002**

(Klokov, Yu. A.) *see* **Mathematics. Differential equations, 94b:34004**

(Kreuzer, E. J.) *see* **Conference: Nonlinear Oscillations, 94d:34003**

(Lyapunov, A. M.) *see* **Conference: Lyapunov Readings, Mathematical, 94f:34002**

(Mitropol'skiĭ, Yu. A.) *see* **Nonlinear differential equations and their application, 94m:34003**

(Samoilenko, A. M.) *see* **Analytic methods for studying nonlinear differential systems, 94b:34003**

(Schmidt, Günter) *see* **Conference: Nonlinear Oscillations, 94d:34003**

(Terëkhin, M. T.) *see* **Differential equations (qualitative theory), 94c:34001**

(Waltman, Paul) *see* **Meeting: ODE, 94k:34001**

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Birthday:
Waltman, Paul E. ★ 20th Midwest ODE Meeting. **94k:34001**

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Lyapunov Readings, Mathematical ★ Международная Математическая Конференция "Ляпуновские Чтения". (Russian) [International Mathematical Conference "Lyapunov Readings"] **94f:34002**
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(Apartsin, A. S.) *see* **Numerical methods in optimization and analysis, 94i:65005**

(Balk, M. B.) *see* **Studies in polyanalytic functions and their generalizations, 94c:00021**

(Burlakova, L. A.) *see* **Problems of analytic mechanics, stability and control of motion, 94k:00018**

(Chetaev, N. G.) *see* **Problems of analytic mechanics, stability and control of motion, 94k:00018**

(Clément, Philippe P.) *see* **Evolution equations, control theory, and biomathematics, 94f:00025**
(Elworthy, K. D.) *see* **Differential equations, dynamical systems, and control science, 94d:00021**
(Everitt, W. Norrie) *see* **Differential equations, dynamical systems, and control science, 94d:00021**
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(Lumer, Gunter) *see* **Evolution equations, control theory, and biomathematics, 94f:00025**
(Markus, Lawrence) *see* **Differential equations, dynamical systems, and control science, 94d:00021**
(Matrosov, V. M.) *see* **Problems of analytic mechanics, stability and control of motion, 94k:00018**
(Meredov, M. M.) *see* **Differential equations and optimal control, 94g:00018**
(Perelló, C.) *see* **Conference: Differential Equations, 94e:00020**
(Plotnikov, V. A.) *see* **Conference: Differential and Integral Equations and their Applications**
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(Solà-Morales, Joan) *see* **Conference: Differential Equations, 94e:00020**
(Tournier, E.) *see* **Computer algebra and differential equations, 94m:00024**
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(Winternitz, Pavel) *see* **Painlevé transcendents, 94e:35007**

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Bifurcations and periodic orbits of vector fields ★ Bifurcations and periodic orbits of vector fields. **94h:58001**
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Jones, D. S. ★ Ordinary and partial differential equations. Vol. IV. **94c:00027**
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Markus, Lawrence ★ Differential equations, dynamical systems, and control science. **94d:00021**
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Models of hysteresis ★ Models of hysteresis. **94c:93004**
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Bifurcations and Periodic Orbits of Vector Fields ★ Bifurcations and periodic orbits of vector fields. **94h:58001**
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Sainte-Adèle, PQ ★ Painlevé transcendents. **94e:35007**
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Optimization Methods and their Applications ★ Численные методы оптимизации и анализа. (Russian) [Numerical methods in optimization and analysis] **94i:65005**
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Bifurcations and Periodic Orbits of Vector Fields ★ Bifurcations and periodic orbits of vector fields. **94h:58001**
Studies in polyanalytic functions and their generalizations ★ Исследования по полианалитическим функциям и их обобщениям. (Russian) [Studies in polyanalytic functions and their generalizations] **94c:00021**
Trento ★ Models of hysteresis. **94c:93004**
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Models of Hysteresis ★ Models of hysteresis. **94c:93004**

34Axx General theory

34A05 Explicit solutions and reductions

Brihaye, Yves (*with* Godart, M.) Quasi-exactly solvable extensions of the Lamé equation. (English summary) **94f:34003**
Caceres Marzal, D. *see* **Martín Sánchez, Á.; et al., 94a:34006**
Cano, José On the series defined by differential equations, with an extension of the Puiseux polygon construction to these equations. (English summary) **94h:34001**
Derevenskiĭ, V. P. Third-order linear ordinary differential equations in the adjoint representation of simple Lie algebras. (Russian. Russian summary) **94e:34003**
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Dzhalilov, D. Solution of a third-order ordinary differential equation with a large parameter. (Russian. Russian and Tajiki summaries)
Flegontov, A. V. *see* **Zaitsev, V. F., 94e:34004**
Gallas, Jason A. C. On analytic and periodic solutions for a class of nonlinear oscillators. (English summary) **94f:34004**
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Huang, Yong Nian² The explicit solution of homogeneous linear ordinary differential equations with constant coefficients. (Chinese. English and Chinese summaries) **94a:34005**
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Terent'ev, A. M. On the number of functionally independent Darboux-type integrals of regular dynamical systems. (Russian) **94h:34002**
Yang, En Hao General solution formulas of three-dimensional linear autonomous systems of ordinary differential equations. (English summary) **94g:34005**
Zaĭtsev, V. F. (*with* Flegontov, A. V.) ★ Дискретно-групповые методы интегрирования обыкновенных дифференциальных уравнений. (Russian. Russian summary) [Discrete-group methods for the integration of ordinary differential equations] **94e:34004**
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— Boundary value problems for coupled systems of second order differential equations with a singularity of the first kind: explicit solutions. (English summary) **94j:34017**
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Navarro, E. (*with* Jódar, Lucas; Company, R.) Solving higher order Fuchs type differential systems avoiding the increase of the problem dimension. (English summary) **94m:34018**
Nishimoto, Katsuyuki (*with* Tu, Shih T'ung; Jaw, Shing-Jong) Generalization of some of Nishimoto's differential equations. I. (English summary) **94b:34011**
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Terent'ev, A. M. Conditions for the existence of the Jacobi last factor of a special type. (Russian. Russian summary) **94h:34007**
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Bountis, T. C. *see* **Drossos, L. B., 94g:58069**
Carillo, Sandra (*with* Fuchssteiner, Benno) Some remarks on a class of ordinary differential equations: the Riccati property. (English summary) **94k:34030**
Drossos, L. B. (*with* Bountis, T. C.) On the convergence of series solutions of nonintegrable systems with algebraic singularities. (English summary) **94g:58069**
Dunster, T. M. (*with* Lutz, D. A.; Schäfke, R.) Convergent Liouville-Green expansions for second-order linear differential equations, with an application to Bessel functions. (English summary) **94d:34007**
Fényes, T. On an algebraic differential equation of Bernoulli type. **94m:44003**
Fuchssteiner, Benno *see* **Carillo, Sandra, 94k:34030**
Gingold, Harry (*with* Yu, Lihong) The local asymptotic behavior of solutions of second order linear differential equations in a nutshell. **94i:34106**
Gromak, V. I. Bäcklund transformations of nonlinear equations. (Russian. Russian summary) **94j:58153**
Kapaev, A. A. Global asymptotics of the second Painlevé transcendent. **94c:34007**
Kierat, Władysław A note on applications of the algebraic derivative to solving of some differential equations. (English summary)
Korobova, E. V. (*with* Sklyar, G. M.) A constructive method for mapping nonlinear systems onto linear systems. (Russian) **94e:34015**
Krabbe, Gregers The initial value problem for singular systems of differential equations. **94m:34021**
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Miller, Kenneth S. (*with* Ross, Bertram) ★ An introduction to the fractional calculus and fractional differential equations. **94e:26013**
Reuter, Volker On connection problems for differential equations of arbitrary Poincaré rank. (English and French summaries) **94b:34009**
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Tu, Shih T'ung (*with* Yang, Sheng Long) An application of fractional calculus to a generalization of Coulomb equation. (English summary) **94j:26017**
Vučković, Miroslav (*with* Rosić, Nikola) On the method of differential composition. (English and Serbo-Croatian summaries) **94d:34012**
Yang, Sheng Long *see* **Tu, Shih T'ung, 94j:26017**
Yoccoz, Jean-Christophe An introduction to small divisors problems. **94h:58148**
Yoshida, Setsuji A general solution of a nonlinear 2-system without Poincaré's condition at an irregular singular point. II. **94e:34010**
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34A26 Geometric methods in differential equations

Czichowski, Günter Geometric aspects of SL(2)-invariant second order ordinary differential equations. **94m:34019**
Levi, Mark A theorem of Poinsot, path ordered integrals and parallel transport. **94e:34011**
Stepanov, N. V. Geometric interpretations of the equation $y''' = m_1 y' + m_0 y$. (Russian. Russian summary) (*see* **94c:00021**)
Zelikin, M. I. On the theory of the matrix Riccati equation. II. (Russian. Russian summary) **94a:34010**

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Abraham-Shrauner, Barbara (*with* Guo, Ann) Hidden symmetries associated with the projective group of nonlinear first-order ordinary differential equations. (English summary) **94a:34012**
— (*with* Leach, P. G. L.) Hidden symmetries of nonlinear ordinary differential equations. (English summary) **94f:34027**
de los Ángeles Llorente, Ma. *see* **Mansilla Corona, Ricardo, 94i:34065**
Giordano, M. (*with* Marmo, G.; Rubano, Claudio) The inverse problem in Hamiltonian formalism: integrability of linear Hamiltonian fields. (English summary) **94f:58044**
Glizburg, V. I. Fibre bundle with fundamentally-group connection associated with ordinary differential system of higher order. (English summary) **94d:53027**
— On the curvature-torsion object of a Cartan connection associated with an ordinary differential system of higher order. (Russian) **94k:53025**
González-Gascón, Francisco Another method of finding first integrals of three-dimensional dynamical systems by quadratures. (English summary) **94j:58145**
Gümral, Hasan (*with* Nutku, Yavuz) Poisson structure of dynamical systems with three degrees of freedom. (English summary) **94i:58066**
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Hill, James M. ★ Differential equations and group methods for scientists and engineers. **94d:34001**
Hurtubise, Jacques C. (*with* Kamran, Niky) Differential invariants, double fibrations and Painlevé equations. **94h:58007**
Ibragimov, N. Kh. Group analysis of ordinary differential equations and the invariance principle in mathematical physics (on the occasion of the 150th anniversary of the birth of Sophus Lie). (Russian. Russian summary) **94d:58130**
Kamran, Niky *see* **Hurtubise, Jacques C., 94h:58007**
Krupková, Olga Liouville and Jacobi theorems for vector distributions. (English summary) **94m:58006**
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— *see also* **Abraham-Shrauner, Barbara, 94f:34027**
(Lie, Sophus) *see* **Ibragimov, N. Kh., 94d:58130**
Mansilla Corona, Ricardo (*with* de los Ángeles Llorente, Ma.) Uniqueness of the O-curve in normal regions of type N_2 for systems of ordinary differential equations in $\mathbf{R}^3$. (Spanish. English and Spanish summaries) **94i:34065**
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Rubano, Claudio *see* **Giordano, M.; et al., 94f:58044**
Ward, James R., Jr. Global continuation for bounded solutions of ordinary differential equations. **94i:34095**
— Homotopy and bounded solutions of ordinary differential equations. **94m:34089**

34A30 Linear equations and systems

Angelova, Rositsa K. *see* **Gichev, Todor R., 94j:34010**
Artem'eva, S. M. On the reducibility of linear differential systems with a functional-commutative matrix of coefficients. (Russian. English and Russian summaries) **94k:34012**
Chalkley, Roger Semi-invariants and relative invariants for homogeneous linear differential equations. **94m:34020**
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Dobrokhotova, M. A. Properties of solutions of linear differential equations in the space L^p. (Russian. Russian summary) **94d:34009**
Filippov, M. G. Reducibility of linear almost periodic systems of differential equations with a skew-symmetric matrix. (Russian. Russian summary) **94d:34010**
Gichev, Todor R. A class of linear differential equations with unbounded coefficients. I. Properties and solutions. (Russian. Russian summary) **94j:34009**
— (*with* Angelova, Rositsa K.) A class of linear differential equations with unbounded coefficients. II. Some applications. (Russian. Russian summary) **94j:34010**
Glavan, V. A. The structure of linear extensions with Favard-type conditions. II. Linear extensions with the property of additivity of recurrent motions. (Russian. Russian and Ukrainian summaries) **94k:34013**
Grod, I. N. Solution of weakly regular linear systems. (Russian. Russian summary) **94c:34009**
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Jorba, Àngel (*with* Simó, Carles) On the reducibility of linear differential equations with quasiperiodic coefficients. **94f:34024**
Kaufmann, Eric R. Derivatives of Cauchy functions of nth order quasi-differential equations. (English summary) **94i:34013**
Kozlov, Valerii V. Linear systems with a quadratic integral. (Russian. Russian summary) **94d:34011**
Krabbe, Gregers The initial value problem for singular systems of differential equations. **94m:34021**
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Kulik, V. L. (*with* Kulik, A. N.) Linear systems of differential equations that are regular on the whole axis. (Russian. Russian summary) **94f:34025**
Laitochová, Jitka On transformations of two linear second order differential equations. (English summary) **94a:34011**
Lin, Sheng Xu The use of standard triples of $L(\lambda)$ to solve higher-order linear differential equations. (Chinese)
Mureşan, Traian S. Sequential systems of linear differential equations. (English summary)
Navarro, E. (*with* Company, R.; Jódar, Lucas) Bessel matrix differential equations: explicit solutions of initial- and two-point boundary value problems. (English summary) **94i:34014**
Neuman, František ★ Global properties of linear ordinary differential equations. **94c:34010**
— On the nth order iterative ordinary linear differential equations. (English summary) **94e:34012**
Palandzhyants, L. Zh. On Liouville's theorem on linear differential equations. (Russian. Russian summary) **94e:34013**
Pelant, Martin (*with* Tvrdý, Milan) Linear distributional differential equations in the space of regulated functions. (English summary) **94k:34014**
Race, D. (*with* Zettl, Anton) Nullspaces, representations and factorizations of quasi-differential expressions. (English summary) **94g:34010**
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Rosić, Nikola (*with* Vučković, Miroslav) On the reduction of order of linear differential equations. (English and Serbo-Croatian summaries) **94d:34013**
— *see also* **Vučković, Miroslav, 94d:34012**
Samoilenko, M. V. On the almost reducibility of a linear system of second-order differential equations. (Russian. Russian summary) (*see* **94b:34003**)
Simó, Carles *see* **Jorba, Àngel, 94f:34024**
Singer, Michael F. (*with* Ulmer, Felix) Galois groups of second and third order linear differential equations. (English summary) **94i:34015**
— (*with* Ulmer, Felix) Liouvillian and algebraic solutions of second and third order linear differential equations. (English summary) **94i:34016**
Telegin, I. V. Some problems in the study of singularly perturbed systems with changing parameters. (Russian. Russian summary) **94b:34013**
Trofimchuk, S. I. Impulse linear extensions. (Russian. Russian summary) **94f:34026**
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Ulmer, Felix *see* **Singer, Michael F., 94i:34015** *and* **94i:34016**
Vučković, Miroslav (*with* Rosić, Nikola) On the method of differential composition. (English and Serbo-Croatian summaries) **94d:34012**
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Adrianova, L. Ya. ★ Введение в теорию линейных систем дифференциальных уравнений. (Russian. Russian summary) [Introduction to the theory of linear systems of differential equations] **94g:34001**
Aĭzenberg, N. N. *see* **Stanković, Miomir S., 94c:47105**
Andrus, Jan Frederick A Runge-Kutta method with stepsize control for separated systems of first-order ODEs. (English summary) **94i:65082**
Ashordiya, M. T. On the correctness of linear boundary value problems for systems of generalized ordinary differential equations. (English and Georgian summaries) **94m:34042**
— On the stability of solutions of linear boundary value problems for the system of ordinary differential equations. (English and Georgian summaries) **94m:34044**
Bainov, Drumi Dimitrov *see* **Simeonov, P. S., 94d:34019** *and* **94i:34031**
Barkatou, M. A. An algorithm for computing a companion block diagonal form for a system of linear differential equations. (English summary) **94g:34016**
Bernstein, Dennis S. (*with* So, Wasin) Some explicit formulas for the matrix exponential. (English summary)
Bertrand, Daniel Groupes algébriques et équations différentielles linéaires. (French summary) [Algebraic groups and linear differential equations] **94b:34006**
Boichuk, L. M. Separation of motions and stationary equilibrium in balance dynamical systems of the open type. (Russian. English, Russian and Ukrainian summaries) **94b:93090**
Boyarintseva, T. P. Application of the continuation method to the solution of singular systems of finite index. (Russian. Russian summary) **94m:34005**
Bulatov, M. V. Reductions of systems of algebro-differential equations. (Russian. Russian summary) **94f:34006**
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Gewert, Marian A linear differential system with multipoint boundary conditions. (English summary) **94d:34024**
Glavan, V. A. Linear systems of differential equations with the property of additivity of recurrent solutions. (Russian. Russian summary) **94e:34044**
Harris, William A., Jr. (*with* Pucci, Patrizia; Serrin, James) Asymptotic behavior of solutions of a nonstandard second order differential equation. (English summary) **94h:34062**
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Hennet, J.-C. *see* **Castelan, E. B., 94g:93059**
Hong, Jia Lin Exponential trichotomies and Fredholm operators. (English summary) **94g:34047**
Ivanov, G. G. Stability of linear homogeneous systems with discontinuous coefficients. (Russian. Russian summary) **94b:34063**
Izobov, N. A. (*with* Stepanovich, O. P.) On the invariance of characteristic exponents of linear systems under exponentially decreasing perturbations. (Russian. Russian summary) **94k:34093**
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— Estimates for characteristic Lyapunov exponents of linear systems with exponentially decreasing perturbations. (Russian. Russian summary) **94k:34094**
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Jódar, Lucas *see* **Navarro, E.; et al., 94m:34018**
Kahane, Charles S. On the stability of solutions of linear differential systems with slowly varying coefficients. **94h:34055**
Levi, Mark A theorem of Poinsot, path ordered integrals and parallel transport. **94e:34011**
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Marletta, Marco Numerical solution of eigenvalue problems for Hamiltonian systems. (English summary) **94m:65120**
Matsumoto, Keiji (*with* Sasaki, Takeshi; Yoshida, Masaaki) Recent progress of Gauss-Schwarz theory and related geometric structures. **94k:32033**
Mattheij, R. M. M. (*with* Wright, Stephen Joseph) Parallel stable compactification for ODEs with parameters and multipoint conditions. (English summary) **94k:34025**
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— A result concerning bounded solutions of linear systems of differential equations. **94j:34036**
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Ovsienko, V. Yu. Lagrange Schwarzian derivative and symplectic Sturm theory. (English and French summaries) **94g:58079**
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Shidlovskii, A. B. Transcendence of values of E-functions that are solutions of second-order linear differential equations. (Russian. Russian summary) **94i:11046**
Shih, Chih Wên Normal forms and versal deformations of linear involutive dynamical systems. (English summary) **94j:58151**
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Simeonov, P. S. (*with* Bainov, Drumi Dimitrov) Estimates for the Cauchy matrix of perturbed linear impulsive equation. (English summary) **94d:34019**
— (*with* Bainov, Drumi Dimitrov) Criteria for dichotomy of linear impulsive differential equations. **94i:34031**
Simó, Carles *see* **Morales, J. J., (94e:00020)**
Singer, Michael F. Moduli of linear differential equations on the Riemann sphere with fixed Galois groups. (English summary) **94k:12009**
Slomczyński, Wojciech Irreducible cooperative systems are strongly monotone. **94g:34076**
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Sokolov, V. V. *see* **Svinolupov, S. I., 94k:34020**
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Stepanovich, O. P. *see* **Izobov, N. A., 94k:34093**
Svinolupov, S. I. (*with* Sokolov, V. V.) A generalization of a theorem of Lie, and Jordan tops. (Russian) **94k:34020**
Tu, Shih T'ung (*with* Nishimoto, Katsuyuki; Jaw, Shing-Jong; Lin, Shy Der) Applications of fractional calculus to ordinary and partial differential equations of the second order. (English summary) **94b:35068**
Vagabov, A. I. On sharpening an asymptotic theorem of Tamarkin. (Russian. Russian summary) **94e:34056**
Willems, Jan C. *see* **Fagnani, Fabio, 94g:93034**
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Yakovets, V. P. Investigation of the noncriticality and stability of a degenerate singularly perturbed system with periodic coefficients. (Russian. Russian summary) **94c:34085**
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Zhang, Rong Fa Stability of a system of two-dimensional linear differential equations with variable coefficients. (Chinese. English and Chinese summaries) **94m:34128**
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34A34 Nonlinear equations and systems, general

Abraham-Shrauner, Barbara (*with* Guo, Ann) Hidden symmetries associated with the projective group of nonlinear first-order ordinary differential equations. (English summary) **94a:34012**
— (*with* Leach, P. G. L.) Hidden symmetries of nonlinear ordinary differential equations. (English summary) **94f:34027**
— (*with* Guo, Ann) Hidden and nonlocal symmetries of nonlinear differential equations. (English summary) **94i:34017**
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Bihari, I. A generalization of the Riccati equation. **94k:34016**
Bountis, T. C. (*with* Drossos, L. B.; Lakshmanan, M.; Parthasarathy, S.) On the nonintegrability of a family of Duffing-van der Pol oscillators. (English summary) **94i:34018**
Cantarelli, Giancarlo New criteria for future global existence of motions of scleronomic systems. (Italian. English summary) **94d:34014**
Cerveró, J. M. (*with* Gordoa, P. R.; Estévez, P. G.) The anharmonic oscillator with variable damping. (English summary) **94k:34017**
Chang, Ch'iu Chün (*with* Chang, Chiu Yang) On a transformation between nonlinear ordinary differential equations. (English summary) **94c:34011**
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Clarkson, Peter A. *see* **Hicks, A. C.; et al., 94k:34019** *and* **Milne, A. E., 94m:34027**
Conte, Robert (*with* Fordy, Allan P.; Pickering, Andrew) Perturbative Painlevé analysis. (*see* **94h:00020**)
Davranov, A. E. (*with* Rozet, I. G.) On one general approach to the investigation of boundedness and finite singularities of the solutions of nonautonomous differential equations. (English summary) **94k:34018**
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Estévez, P. G. *see* **Cerveró, J. M.; et al., 94k:34017**
Euler, N. (*with* Steeb, Willi-Hans) Nonlinear differential equations, Lie symmetries, and the Painlevé test. (English summary) **94i:34019**
Evtukhov, V. M. A class of monotone solutions of an nth-order nonlinear differential equation of Emden-Fowler type. (Russian. English and Georgian summaries) **94i:34020**
Fang, Jin Qing (*with* Yao, Wei Guang) The inverse operator method for solving nonlinear dynamical equations and some examples of its application. (Chinese. English and Chinese summaries)
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Golec, Janusz On Arsenev-type statistical solutions of differential equations with non-uniquely solvable Cauchy problems. **94i:34021**
Gordoa, P. R. *see* **Cerveró, J. M.; et al., 94k:34017**
Goriely, Alain From weak to full Painlevé property via time singularities transformations. **94i:34022**
Govinder, K. S. (*with* Leach, P. G. L.) Generalized Ermakov systems in terms of $\mathrm{sl}(2, \mathbf{R})$ invariants. (English summary) **94i:34023**
— (*with* Leach, P. G. L.) Ermakov systems: a group-theoretic approach. (English summary) **94m:34023**
Guo, Ann *see* **Abraham-Shrauner, Barbara, 94a:34012** *and* **94i:34017**
Hicks, A. C. (*with* Clarkson, Peter A.; Bassom, Andrew P.) A study of the fourth Painlevé equation. (English summary) **94k:34019**
Ishii, Masaharu Symmetry and the singular point analysis for ordinary differential equations. (English summary) **94h:34009**
Kang, Bo A class of Emden-Fowler equations with critical exponents. (Chinese. English summary) **94c:34012**
Kara, A. H. (*with* Mahomed, F. M.) A note on the solutions of the Emden-Fowler equation. (English summary) **94i:34024**
Karrum, R. On the existence of Clifford multipliers. (Russian. Russian summary) **94e:34014**
Kinyon, Michael K. (*with* Sagle, Arthur A.; Myung, Hyo Chul) Quadratic differential equations. (English summary) **94m:34024**
— (*with* Sagle, Arthur A.) Differential systems and algebras. **94i:34025**
Kitaev, A. V. The isomonodromy technique and the elliptic asymptotics of the first Painlevé transcendent. (Russian. Russian summary) **94m:34025**
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Beynon, M. J. (*with* Brown, B. Malcolm; Evans, W. D.) On an inequality of the Kolmogorov type for a second-order differential expression. (English summary) **94g:26027**
Bihari, I. A generalization of the Riccati equation. **94k:34016**
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Burton, T. A. A general stability result of Marachkov type. (English summary) **94a:34063**
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34A45 Theoretical approximation of solutions

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34A47 Bifurcation

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Gartland, Eugene C., Jr. Analysis of a simplified liquid crystal shear-flow model. (English summary) **94k:34040**
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Amodio, Pierluigi (*with* Mazzia, Francesca) Boundary value methods for the solution of differential-algebraic equations. (English summary) **94m:65104**
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— (*with* Strehmel, K.; Weiner, Rüdiger) Half-explicit Runge-Kutta methods for semi-explicit differential-algebraic equations of index 1. (English summary) **94c:65089**
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Ascher, Uri M. (*with* Chin, Hongsheng; Reich, Sebastian) Stabilization of DAEs and invariant manifolds. (English summary) **94m:65121**
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Blatov, I. A. (*with* Strygin, V. V.) Estimates that are unimprovable with respect to order in Galerkin's finite-element method for singularly perturbed boundary value problems. (Russian) **94g:65088**
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Boyarintsev, Yu. E. On the agreement of initial data in the solution of singular systems of ordinary differential equations. (Russian) **94k:65112**
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Bruder, Jürgen Linearly-implicit Runge-Kutta methods based on implicit Runge-Kutta methods. (English summary) **94g:65072**
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— (*with* Trigiante, Donato) Stability properties of some boundary value methods. (English summary) **94k:65095**
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34Cxx Qualitative theory [see also 58Fxx]

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Hoppensteadt, Frank C. ★ Analysis and simulation of chaotic systems. (English summary) **94a:34003**
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34C05 Location of integral curves, singular points, limit cycles

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Bieza, L. A. (*with* Reiziņš, Linards) A simple criterion for the presence of O-curves. (Russian. Russian summary)
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Busenberg, Stavros N. (*with* van den Driessche, P.) A method for proving the nonexistence of limit cycles. (English summary) **94c:34039**
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Chen, Li (*with* Wang, Duo) A simpler proof and improvement of the formula for computing Lyapunov quantities by Kertész and Kooij. (Chinese. English summary) **94m:34065**
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Conti, Roberto On centers of type B of polynomial systems. (English summary) **94c:34040**
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Dang, Xin Yi *see* **Li, Lin, 94k:34050**
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Dmitriev, A. P. Singular points of periodic differential systems in the plane that admit separation of a homogeneous principal part. (Russian. Russian summary) **94d:34037**
Dolov, M. V. On the limit cycles of a system. (Russian) **94g:34039**
— (*with* Chistyakova, S. A.) Algebraic differential equations with an integrating factor of Darboux type. (Russian. English, Russian and Moldavian summaries) **94g:34040**
Dou, Ji Hong (*with* Zhang, Di[1]) Periodic solutions of a class of periodic Riccati-type equation. (English summary) **94i:34062**
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Gaĭko, V. A. Separatrix cycles of quadratic systems. (Russian. English and Russian summaries) **94k:34046**
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— (*with* Guillamon i Grabolosa, Toni) Nonexistence of limit cycles for some predator-prey systems. (English summary) (*see* **94e:00020**)
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He, Ping (*with* Shen, Bo Qian) Topological classification of the trajectories of Kolmogorov cubic system E_3^2 with elliptic solution which contact both the axes. (English summary) **94h:34029**
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— The number of singular points of a polynomial system. (Chinese summary) **94m:34068**

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— *see also* **Zegeling, André**, **94m:34078**

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— (*with* Dang, Xin Yi) Qualitative analysis of a continuously stirred tank reactor. (Chinese. Chinese summary) **94k:34050**

Li, Sen Lin (*with* Huang, Li Hong) On the existence of limit cycles and the boundedness of solutions for autonomous plane systems. (Chinese. English and Chinese summaries) **94c:34043**

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Li, Xue Min Coefficient condition of center in Dulac meaning for a nonlinear homogeneous system with one zero characteristic root. (English summary) **94c:34044**

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Mansilla Corona, Ricardo (*with* de los Ángeles Llorente, Ma.) Uniqueness of the O-curve in normal regions of type N_2 for systems of ordinary differential equations in $\mathbf{R}^3$. (Spanish. English and Spanish summaries) **94i:34065**

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Buslaev, A. P. Some properties of the spectrum of nonlinear equations of Sturm-Liouville type. (Russian. Russian summary) **94m:34220**

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Eberhard, Walter (*with* Freiling, Gerhard) An expansion theorem for eigenvalue problems with several turning points. (English summary) **94h:34027**

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Maier, Stanislaus Radial solutions of semilinear elliptic equations with prescribed numbers of zeros. (English summary) **94m:35107**

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— (*with* Skornyakova, B. L.) Qualitative-numerical investigation of a periodically perturbed nonlinear oscillator of van der Pol type. (Russian. Russian summary) **94c:34055**
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34Dxx Stability theory [see also 58F10, 93Dxx]

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34D05 Asymptotic properties

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34D08 Lyapunov exponents

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34D10 Perturbations

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34D15 Singular perturbations

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34D20 Lyapunov stability

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34D40 Ultimate boundedness

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Benoît, Éric Linear dynamic bifurcation with noise. **94a:34042**

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— (*with* Strygin, V. V.) A collocation method of the fourth order of accuracy for singularly perturbed boundary value problems. (Russian. English and Russian summaries) **94k:65118**

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34E20 Singular perturbations, turning point theory, WKB methods

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Takei, Yoshitsugu *see* **Aoki, Takashi; et al., 94a:34077**
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Aquilanti, Vincenzo (*with* Cavalli, Simonetta; Sevryuk, M. B.) Asymptotic (semiclassical) equivalence for Schrödinger equations with singular potentials and for related systems of two first-order equations. (English summary) **94i:34158**
Braunss, H.-A. *see* **Schachtzabel, H.; et al., 94j:78006**
Buslaev, V. S. Spectral properties of adiabatically perturbed differential operators with the periodic coefficients. (English summary) **94a:34123**
Cavalli, Simonetta *see* **Aquilanti, Vincenzo; et al., 94i:34158**
Dubrovskii, G. V. (*with* Kontorin, V. Yu.) Detailed formulas for the coupling of WKB solutions for a potential barrier and a hole. (Russian) **94d:81040**
Dumortier, Freddy Techniques in the theory of local bifurcations: blow-up, normal forms, nilpotent bifurcations, singular perturbations. (English summary) **94j:58123**
Farrell, Paul A. *see* **Vulanović, Relja, 94f:34108**
Gartland, Eugene C., Jr. Analysis of a simplified liquid crystal shear-flow model. (English summary) **94k:34040**
Hakim, Vincent Computation of transcendental effects in growth problems: linear solvability conditions and nonlinear methods—the example of the geometric model. **94g:80010**
Hofmann, Bernd *see* **Schachtzabel, H.; et al., 94j:78006**
Karasëv, M. V. (*with* Pereskokov, A. V.) One-dimensional equations of a self-consistent field with cubic nonlinearity in quasiclassical approximation. (Russian. Russian summary) **94a:81032**
Kitaev, A. V. Turning points of linear systems and double asymptotics of the Painlevé transcendents. **94i:34008**
— The isomonodromy technique and the elliptic asymptotics of the first Painlevé transcendent. (Russian. Russian summary) **94m:34025**
Knessl, Charles On the distribution of the maximum number of broken machines for the repairman problem. (English summary) **94k:60153**
— *see also* **Xie, Shisheng, 94d:60151**
Kontorin, V. Yu. *see* **Dubrovskii, G. V., 94d:81040**
Kulikovskii, A. G. On the loss of stability of weakly nonhomogeneous flows in extended domains. The occurrence of transversal vibrations of a pipe with fluid flowing through it. (Russian. Russian summary) **94j:76032**
Lim, R. Overlapping Stokes smoothings in adiabatic quantum transitions. (English summary) **94k:81045**
McLeod, J. Bryce Smoothing of Stokes discontinuities. **94c:34081**
Parisse, Bernard Résonances pour l'opérateur de Dirac. II. (English and French summaries) [Resonances for the Dirac operator. II] **94a:81033**
Pereskokov, A. V. *see* **Karasëv, M. V., 94a:81032**
Roos, Hans-Görg (*with* Vulanović, Relja) A higher order uniform convergence result for a turning point problem. (English summary) **94k:34026**
Schachtzabel, H. (*with* Braunss, H.-A.; Hofmann, Bernd) On the solution of an ill-posed nonlinear Fredholm integral equation connected with an inverse problem of thin film optics. (English summary) **94j:78006**
Sevryuk, M. B. *see* **Aquilanti, Vincenzo; et al., 94i:34158**
Shapovalov, A. V. (*with* Yurchenko, S. N.) Application of the complex WKB method for studying the evolution of an initial impulse in correspondence with the nonlinear Schrödinger equation. (Russian. Russian summary) **94f:35131**
Skorupski, Andrzej A. Wave propagation in complex systems of cutoffs and resonances. (English summary) **94d:78010**
Tovstik, P. E. Turning points and caustics in linear problems of thin shell free vibrations and buckling. (English summary) **94k:73053**
Vagabov, A. I. Asymptotic behavior of solutions of differential equations with respect to a parameter, and applications. (Russian) **94f:34107**
Vulanović, Relja (*with* Farrell, Paul A.) Continuous and numerical analysis of a multiple boundary turning point problem. (English summary) **94f:34108**
— *see also* **Roos, Hans-Görg, 94k:34026**
Wazwaz, Abdul-Majid Resonance and asymptotic solutions of a singular perturbation problem. (English summary) **94b:34081**
Woodruff, S. L. The use of an invariance condition in the solution of multiple-scale singular perturbation problems: ordinary differential equations. (English summary) **94g:34094**
Xie, Shisheng (*with* Knessl, Charles) On the transient behavior of the Erlang loss model: heavy usage asymptotics. (English summary) **94d:60151**
Yurchenko, S. N. *see* **Shapovalov, A. V., 94f:35131**

34E99 None of the above, but in this section

Migórski, Stanisław (*with* Mortola, S.; Traple, J.) Homogenization of first order differential operators. (English and Italian summaries) **94f:34111**
Mortola, S. *see* **Migórski, Stanisław; et al., 94f:34111**
Traple, J. *see* **Migórski, Stanisław; et al., 94f:34111**

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Akhmetov, M. U. (*with* Perestyuk, N. A.) Asymptotic expansion of a solution of a regularly perturbed nonlinear impulse equation. (Russian. English, Russian and Kazakh summaries) **94h:34013**
Bassom, Andrew P. *see* **Hicks, A. C.; et al., 94k:34019**
Beloglazov, V. A. Asymptotic behavior of solutions of nonlinear differential equations. (Russian) **94e:34047**
Clarkson, Peter A. *see* **Hicks, A. C.; et al., 94k:34019**
Dzhalilov, D. Solution of a third-order ordinary differential equation with a large parameter. (Russian. Russian and Tajiki summaries)
Elias, Uri (*with* Gingold, Harry) Oscillation of two-term differential equations through asymptotics. (English summary) (*see* **94e:00020**)
Ellison, James A. *see* **Kummer, Martin P.; et al., 94f:34092**
Filippov, V. V. Stationary points and some geometric properties of solutions of ordinary differential equations. (Russian) **94g:34073**
Gingold, Harry *see* **Elias, Uri, (94e:00020)**
Hicks, A. C. (*with* Clarkson, Peter A.; Bassom, Andrew P.) A study of the fourth Painlevé equation. (English summary) **94k:34019**
Holmes, Philip J. *see* **Scheurle, Jürgen; et al., 94f:34091**
Kapaev, A. A. Global asymptotics of the second Painlevé transcendent. **94c:34007**
Kratz, Werner The asymptotic behaviour of Riccati matrix differential equations. **94g:34110**
Kummer, Martin P. (*with* Ellison, James A.; Sáenz, A. W.) Exponentially small phenomena in the rapidly forced pendulum. (English summary) **94f:34092**
Lange, Charles G. (*with* Smith, Donald Ray) Singular perturbation analysis of integral equations. II. (English summary) **94i:45002**
Majima, Hideyuki Resurgent equations and Stokes multipliers for the generalized confluent hypergeometric differential equations of the second order. **94i:33022**
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Zernov, A. E. The existence and asymptotic behavior of the solution of the Cauchy problem of implicit form. (Russian) **94j:34002**

34F05 Equations and systems with randomness [see also 34K50, 60H10, 93E03]

Dongak, M. D. (*with* Loginov, V. M.) Nonstationary distributions of coupled Duffing oscillators. (Russian. Russian summary) **94a:34081**
Dorogovtsev, A. Ya. Stationary and periodic solutions of the Riccati operator equation with random perturbation. (Russian. English and Ukrainian summaries) **94k:34107**
Frey, Michael *see* **Simiu, Emil, 94d:34061**

Kolomiets, V. G. *see* **Mitropol'skiĭ, Yu. A., 94m:34143**
Kotulski, Z. Generalized Shapiro-Loginov formula and moment stability of a string equation with random telegraphic parameter. (Russian and Polish summaries) **94a:34082**
Kovaleva, A. S. Separation of motions in nonlinear systems with a rotating phase under random perturbations. (Russian. Russian summary) **94k:34108**
Loginov, V. M. *see* **Dongak, M. D., 94a:34081**
Mishanina, M. G. (*with* Muzychuk, O. V.) On the analysis of nonlinear dynamical systems excited by intensive nonwhite noise. (Russian. Russian summary) **94b:34082**
Mishchenko, A. S. Stationary solutions of nonlinear stochastic equations [MR 93a:34070]. (*see* **94d:00013**)
Mitropol'skiĭ, Yu. A. (*with* Kolomiets, V. G.) On the application of asymptotic methods in essentially nonlinear stochastic differential equations. (Russian. Russian summary) **94m:34143**
Muzychuk, O. V. *see* **Mishanina, M. G., 94b:34082**
Poloskov, I. E. On the application of the method of infinite systems for the analysis of dynamical systems with random parameters. (Russian) (*see* **94e:70001**)
Simiu, Emil (*with* Frey, Michael) Spectrum of the stochastically forced Duffing-Holmes oscillator. (English summary) **94d:34061**
Xia, Ning Mao The solution of random eigenvalue problem with small stochastic processes. (English summary) **94e:34060**
— Asymptotic approximation of the solution of a random boundary value problem containing small white noise. (English summary) **94i:34116**
Xu, Kedai Bifurcations of random differential equations in dimension one. (English summary) **94c:34087**
Zhang, Weijian The spectral density of a nonlinear damping model: multi-DOF case. (English summary) **94m:34144**

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Alberverio, Sergio (*with* Hilbert, Astrid) Some results on Newton equation with an additional stochastic force. (English summary) (*see* **94c:93005**)
Ariaratnam, S. T. On the role of Lyapunov exponents in stochastic bifurcations. (English summary) **94m:60115**
— (*with* Xie, Wei Chau) Sensitivity of pitchfork bifurcation to stochastic perturbation. (English summary) **94a:34041**
— (*with* Xie, Wei Chau) Lyapunov exponents and stochastic stability of two-dimensional parametrically excited random systems. (English summary) **94d:70012**
— (*with* Xie, Wei Chau) Almost-sure stochastic stability of coupled nonlinear oscillators. (English summary) **94m:70050**
Arnold, Ludwig (*with* Xu, Kedai) Simultaneous normal form and center manifold reduction for random differential equations. (English summary) **94i:60066**
Benoît, Éric Linear dynamic bifurcation with noise. **94a:34042**
Berezhkovskiĭ, A. M. *see* **Pollak, Eli, 94h:82050**
Bobrik, R. V. Conditions for the moment stability of linear stochastic systems. (English summary) **94b:93141**
Borisenko, O. V. Behavior of a nonautonomous oscillatory system under the influence of small random perturbations in the resonance case. (Russian. Russian and Ukrainian summaries) **94a:34035**
Brzeźniak, Zdzisław (*with* Flandoli, Franco) Regularity of solutions and random evolution operator for stochastic parabolic equations. **94m:60125**
Cai, Guo Qiang (*with* Lin, Y. K.) On statistics of first-passage failure. (English summary) **94m:70051**
Chen-Mairansaev, E. A. *see* **Levit, M. V., (94c:00019)**
Chu, Yi Qing *see* **Yang, Huai; et al.**
Da Prato, Giuseppe Some results for semilinear equations perturbed by white noise. **94a:60095**
Dokuchaev, N. G. Integral estimates for solutions of ordinary differential equations in the case of a break on the boundary of the domain. (Russian. Russian summary) **94f:34007**
Dorogovtsev, A. Ya. ★ Периодические и стационарные режимы бесконечномерных детерминированных и стохастических динамических систем. (Russian. Russian and Ukrainian summaries) [Periodic and stationary regimes of infinite-dimensional deterministic and stochastic dynamical systems] **94c:60097**
Flandoli, Franco *see* **Brzeźniak, Zdzisław, 94m:60125**
Freidlin, Mark I. (*with* Venttsel', A. D.) Random perturbations of Hamiltonian systems. (English summary) **94j:35064**
Gątarek, Dariusz (*with* Goldys, B.) On solving stochastic evolution equations by the change of drift with application to optimal control. **94d:60096**
Gauthier, Serge (*with* Thibault, Lionel) Viability for constrained stochastic differential equations. (English summary) **94h:60081**
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— *see also* **Alberverio, Sergio, (94c:93005)**
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Ivaniv, I. (*with* Tsar'kova, V.) On the stability of linear impulsive systems with Markov's coefficients. (English, Russian and Latvian summaries) **94e:34048**
Jumarie, Guy Stochastic differential equations with fractional Brownian motion input. (English summary) **94a:60088**
Kabanov, Yu. M. (*with* Pergamenshchikov, S. M.; Stoyanov, Jordan) Asymptotic expansions for singularly perturbed stochastic differential equations. (English summary) **94d:60088**
Kannan, D. (*with* Hazareesingh, L.) Multiplicative stochastic integral method for stochastic evolution equations. **94g:60100**
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Kisielewicz, Michał Properties of solution set of stochastic inclusions. (English summary) **94f:34037**
Kleczkowski, A. Dynamical systems with impulses: stroboscopic maps approach. (English summary) **94e:34017**
Kloeden, Peter E. (*with* Platen, Eckhard) ★ Numerical solution of stochastic differential equations. **94b:60069**
Kouritzin, M. A. (*with* Heunis, Andrew) Rates of convergence in a central limit theorem for stochastic processes defined by differential equations with a small parameter. (English summary) **94g:60111**
Leizarowitz, Arie Eigenvalue representation for the Lyapunov exponents of certain Markov processes. **94c:60099**
Leng, Gerard (*with* Sri Namachchivaya, N.; Talwar, S.) Robustness of nonlinear systems perturbed by external random excitation. (English summary) **94e:70021**
Levit, M. V. (*with* Chen-Mairansaev, E. A.) Stability and calculation of the characteristics of a stationary regime in linear systems with parametric perturbation by a Markov chain. (Russian. Russian summary) (*see* **94c:00019**)
Li, Xiao Jun A maximum principle for stochastic evolution equations. (Chinese. Chinese summary) **94m:49042**
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Makhno, S. Ya. On convergence of solutions of stochastic equations. (English summary) **94d:60090**
Markus, Lawrence (*with* Weerasinghe, Ananda) Stochastic nonlinear oscillators. (English summary) **94j:60118**
Maslowski, Bohdan Strong Feller property for semilinear stochastic evolution equations and applications. (*see* **93d:93009**)
Moshchuk, N. K. An approximate method for the analysis of stochastic mechanical systems. (Russian. Russian summary) **94c:70016**
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Pollak, Eli (*with* Berezhkovskiĭ, A. M.) Fokker-Planck equation for nonlinear stochastic dynamics in the presence of space and time dependent friction. (English summary) **94h:82050**
Poloskov, I. E. An algorithm for computing stationary probability density. (Russian) **94i:70028**
Ponosov, A. V. Stationary solutions to infinite-dimensional stochastic equations and nonstandard analysis. (English summary) (*see* **94e:00020**)
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Scheutzow, Michael Stabilization and destabilization by noise in the plane. (English summary) **94a:60097**
Shalfeev, V. D. On steady-state regimes in a chain of phase synchronization systems under the effect of additive noise. (Russian. Russian summary) **94c:34073**
Sri Namachchivaya, N. (*with* Talwar, S.) Maximal Lyapunov exponent and rotation number for stochastically perturbed co-dimension two bifurcations. (English summary) **94k:34072**
— *see also* **Leng, Gerard; et al., 94e:70021**
Stoyanov, Jordan *see* **Kabanov, Yu. M.; et al., 94d:60088**
Strelkova, N. A. Application of the Vietoris method for solving the Fokker-Planck-Kolmogorov equation in the investigation of a nonlinear system. (Russian) (*see* **94e:70001**)
Sun, Feng Zhu (*with* Qian, Min Ping) Lyapunov exponent and rotation number for stochastic Dirac operators. (English summary) **94c:34129**
— Kotani theory for stochastic Dirac operators. (English summary) **94i:34160**
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Tleubergenova, G. I. On the stability of programmed motion in the presence of random perturbations. (Russian) (*see* **94f:00020**)
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Venttsel', A. D. *see* **Freidlin, Mark I., 94j:35064**
Vermet, Franck Discrétisation d'une équation différentielle stochastique dont les coefficients ne dépendent pas du temps et calcul approché d'espérances de fonctionnelles de la solution. (French summary) [Discretization of a stochastic differential equation whose coefficients are not time-dependent, and rough estimate of the expectations of functionals of the solution] **94k:60093**
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Wihstutz, Volker The growth of energy of a free particle of small mass with multiplicative real noise. (*see* **93e:60003**)
Xie, Wei Chau *see* **Ariaratnam, S. T., 94a:34041; 94d:70012** *and* **94m:70050**
Xu, Kedai *see* **Arnold, Ludwig, 94i:60066**
Xu, Ming Hao (*with* Hu, Ze Cheng) Existence of mild solutions to stochastic evolution equations. (Chinese. English and Chinese summaries) **94h:60087**
Yang, Huai (*with* Zhu, Hua[2]; Chu, Yi Qing) Bifurcations of a class of nonlinear systems under stochastic excitation. (Chinese. English and Chinese summaries)
Zhu, Hua[2] *see* **Yang, Huai; et al.**

34Gxx Differential equations in abstract spaces [see also 58D25]

(Dore, Giovanni) *see* **Differential equations in Banach spaces, 94c:34088**
(Favini, Angelo) *see* **Differential equations in Banach spaces, 94c:34088**
Martynyuk, D. I. *see* **Mitropol'skiĭ, Yu. A.; et al., 94d:34062**
Mitropol'skiĭ, Yu. A. (*with* Samoĭlenko, A. M.; Martynyuk, D. I.) ★ Systems of evolution equations with periodic and quasiperiodic coefficients. (English summary) **94d:34062**
(Obrecht, Enrico) *see* **Differential equations in Banach spaces, 94c:34088**
Samoĭlenko, A. M. *see* **Mitropol'skiĭ, Yu. A.; et al., 94d:34062**
Sviridyuk, G. A. Semilinear equations of Sobolev type with a relatively sectorial operator. (Russian) **94f:34112**
(Venni, Alberto) *see* **Differential equations in Banach spaces, 94c:34088**

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Differential equations in Banach spaces ★ Differential equations in Banach spaces. **94c:34088**

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Angenent, Sigurd B. *see* **Clément, Philippe P.; et al., 94c:47060**

Clément, Philippe P. (*with* Heijmans, Henk J. A. M.; Angenent, Sigurd B.; van Duijn, Cornelis Johannes; de Pagter, Bernardus) ★ Однопараметрические полугруппы. (Russian. Russian summary) [One-parameter semigroups] **94c:47060**

Daners, Daniel (*with* Koch Medina, Pablo) ★ Abstract evolution equations, periodic problems and applications. (English summary) **94b:34002**

Dorogovtsev, A. Ya. ★ Периодические и стационарные режимы бесконечномерных детерминированных и стохастических динамических систем. (Russian. Russian and Ukrainian summaries) [Periodic and stationary regimes of infinite-dimensional deterministic and stochastic dynamical systems] **94c:60097**

van Duijn, Cornelis Johannes *see* **Clément, Philippe P.; et al., 94c:47060**

Gershtein, L. M. (*with* Sobolevskii, P. E.) "Commutant method" in the theory of operators and the theory of differential equations with operator coefficients. **94b:47091**

(Goldstein, Gisèle Ruiz) *see* **Semigroups of linear and nonlinear operations and applications, 94k:47003**

(Goldstein, Jerome A.) *see* **Semigroups of linear and nonlinear operations and applications, 94k:47003**

Heijmans, Henk J. A. M. *see* **Clément, Philippe P.; et al., 94c:47060**

Ilolov, M. Evolution equations with time deviation and with impulse action (a brief review of the results). (English summary) **94b:34107**

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(Krein, S. G.) *see* **Clément, Philippe P.; et al., 94c:47060**

de Pagter, Bernardus *see* **Clément, Philippe P.; et al., 94c:47060**

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Curaçao ★ Semigroups of linear and nonlinear operations and applications. **94k:47003**

Semigroups of linear and nonlinear operations and applications ★ Semigroups of linear and nonlinear operations and applications. **94k:47003**

34G10 Linear equations [see also 47Axx, 47Bxx, 47D06, 47D09]

Acquistapace, Paolo Abstract linear nonautonomous parabolic equations: a survey. **94f:34113**

Aibeche, Aissa Coerciveness estimates for a class of nonlocal elliptic problems. (English summary) **94m:34145**

Al'ber, Ya. Geometry of Banach spaces and asymptotic and nonasymptotic properties of monotone equations of evolution. (English summary) (*see* **94e:00020**)

Almamedov, M. S. (*with* Bairamogly, M.; Katanova, V. I.) On regularized traces of an even-order differential equation with an unbounded operator coefficient. (Russian. Russian summary) **94h:34066**

Anosov, V. P. Coercive solvability of abstract parabolic equations. (Russian) **94f:34114**

Apetova, T. V. *see* **Sviridyuk, G. A., 94i:34123**

Arosio, A. (*with* Panizzi, S.; Paoli, M. G.) Temporally inhomogeneous Timoshenko beam equations. **94e:34061**

Arov, D. Z. (*with* Gavrilyuk, I. P.) A method for solving initial value problems for linear differential equations in Hilbert space based on the Cayley transform. (English summary) **94h:34067**

Aulbach, Bernd (*with* Nguyễn Văn Minh; Zabreiko, P. P.) A generalization of the monodromy operator for nonperiodic linear differential equations. (English summary) **94m:34146**

Bainov, Drumi Dimitrov (*with* Kostadinov, S. I.; Zabreiko, P. P.) L_p-equivalence of a linear and a nonlinear impulsive differential equation in a Banach space. (English summary) **94a:34083**

Bairamogly, M. *see* **Almamedov, M. S.; et al., 94h:34066**

Belonosov, V. S. The second Lyapunov method for abstract parabolic equations and its applications to partial differential equations. (Russian. Russian summary) **94c:34089**

Butyrin, A. A. Generalized limits for solutions of perturbed evolution equations. (Russian. Russian summary) **94g:34098**

— On the approximation of continuous functions by solutions to the operator-differential equations. (Russian and Ukrainian summaries) **94i:34117**

Choulli, Mourad Determination of the inhomogeneous term in evolution equations. (English summary) **94k:34109**

Daners, Daniel (*with* Koch Medina, Pablo) Superconvexity of the evolution operator and parabolic eigenvalue problems on $\mathbf{R}^n$. **94m:34147**

Di Blasio, Gabriella Interpolation and extrapolation spaces and parabolic equations. **94f:34115**

Emel'anova, E. V. (*with* Vasil'ev, V. V.) The coercive solvability of abstract parabolic equations in Banach spaces. (*see* **94f:00025**)

Favini, Angelo (*with* Tanabe, Hiroki) Linear parabolic differential equations of higher order in time. (English summary) **94i:34118**

— (*with* Yagi, Atsushi) Multivalued linear operators and degenerate evolution equations. (Italian summary) **94f:34116**

— (*with* Yagi, Atsushi) On second order implicit differential equations in Banach spaces. **94j:34061**

Fayazov, K. S. The Cauchy problem for a second-order differential equation with operator coefficients. (Russian. English and Uzbek summaries) **94m:34148**

Filinkov, A. I. *see* **Mel'nikova, I. V., 94a:34086**

Gasymov, M. G. (*with* Mirzoev, S. S.) Solvability of boundary value problems for second-order operator-differential equations of elliptic type. (Russian. Russian summary) **94k:34110**

Gavrilyuk, I. P. *see* **Arov, D. Z., 94h:34067**

Gorbachuk, V. I. On the solution of an operator-differential equation with singularities. (Ukrainian. Ukrainian summary) **94d:34063**

Grobbelaar-van Dalsen, Marié On the solvability of the boundary value problem for the elastic beam with attached load. (English summary) **94k:34111**

Henry, Daniel B. (*with* Perissinotto, Anízio, Jr.; Lopes, Orlando) On the essential spectrum of a semigroup of thermoelasticity. **94h:34068**

Ito, Kazufumi Well-posedness and stability of perturbed linear evolution equations. **94m:34149**

Jódar, Lucas Explicit closed form solutions for second order operator problems. (English and Serbo-Croatian summaries) **94f:34117**

Kalina, Jerzy (*with* Poreda, Tadeusz) On a certain dependence of the solution of the differential equation for maps of Banach space into Banach space upon the initial conditions. (English, Russian and Polish summaries) **94k:34112**

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34K50 Stochastic delay equations [see also 34F05, 60Hxx]

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Caraballo Garrido, Tomás (*with* Real Anguas, José) PDE with stochastic perturbations: existence, uniqueness and stability of solutions. **94a:34119**
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34K99 None of the above, but in this section

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Hankerson, Darrel (*with* Zinner, Bertram) Wavefronts for a cooperative tridiagonal system of differential equations. (English summary) **94c:34120**
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Spatschek, K. H. *see* **Claude, Ch.; et al., (94h:00020)**
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Diamond, Harold G. (*with* Halberstam, H.; Richert, H.-E.) Sieve auxiliary functions. II. **94c:11090**
Frankel, Jay I. (*with* Roy Choudhury, S.) Some new observations on the classical logistic equation with heredity. (English summary) **94e:92025**
Gao, Wei-Zheng Threshold behavior and propagation for a differential-difference system. (English summary) **94g:92008**
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Hu, Shou Chuan (*with* Lakshmikantham, V.; Papageorgiou, Nikolaos S.) Extremal solutions of functional-differential inclusions. (English summary) **94c:34016**
Kamvissis, Spyridon On the long time behavior of the doubly infinite Toda lattice under initial data decaying at infinity. (English summary) **94c:58086**
Kappel, Franz (*with* Turi, Janos) Singular integro-differential equations and product spaces. (English summary) **94f:45012**
Kisielewicz, Michal Properties of solution set of stochastic inclusions. (English summary) **94f:34037**
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Tuzinkevich, A. V. ★ Интегральные модели пространственно-временной динамики экосистем. (Russian. Russian summary) [Integral models of the space-time dynamics of ecosystems] **94e:92026**
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34Lxx Ordinary differential operators [see also 47E05]

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34L05 General spectral theory

Androshchuk, A. A. Characteristic properties of a spectral function for the Sturm-Liouville operator-boundary value problem (the hyperbolic case). (Russian. Russian summary) **94b:34110**
Ben-Artzi, A. (*with* Gohberg, Israel; Kaashoek, M. A.) Invertibility and dichotomy of differential operators on a half-line. (English summary) **94f:34163**
Clark, Steve (*with* Hinton, D. B.) Strong nonsubordinacy and absolutely continuous spectra for Sturm-Liouville equations. (English summary) **94a:34120**
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Guseinov, G. Sh. Spectral analysis of second-order multiparameter differential equations with periodic coefficients. (Russian. Russian summary) **94k:34157**
Hajmirzaahmad, Mojdeh (*with* Krall, Allan M.) Singular second-order operators: the maximal and minimal operators, and selfadjoint operators in between. (English summary) **94b:34111**
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Marchenko, V. A. An estimate for the remainder term in an asymptotic formula for a spectral function of the Sturm-Liouville operator. (Russian) **94b:34113**
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Alekseev, A. A. An inverse spectral problem for a differential equation with a parameter in the boundary condition. (Russian. Russian summary) (*see* **94e:00015**)
Almamedov, M. S. (*with* Bairamogly, M.; Katanova, V. I.) On regularized traces of an even-order differential equation with an unbounded operator coefficient. (Russian. Russian summary) **94h:34066**
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Atkinson, F. V. (*with* Langer, Heinz; Mennicken, Reinhard) Sturm-Liouville problems with coefficients which depend analytically on the eigenvalue parameter. **94m:34060**
Bairamogly, M. *see* **Almamedov, M. S.; et al., 94h:34066** *and* **Maksudov, F. G.; et al., 94m:47095**
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Berezanskii, Yu. M. (*with* Konstantinov, A. Yu.) Expansion in eigenvectors of multiparameter spectral problems. (English and Ukrainian summaries) **94g:47023**
Brown, B. Malcolm (*with* Evans, W. D.; Everitt, W. Norrie) HELP integral and series inequalities. (English summary) **94e:26032**
Buslaev, A. P. Some properties of the spectrum of nonlinear equations of Sturm-Liouville type. (Russian. Russian summary) **94m:34220**
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Buzano, Ernesto A two-parameter spectral theorem. (English summary) **94e:47007**
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Edward, Julian Spectra of Jacobi matrices, differential equations on the circle, and the su(1, 1) Lie algebra. (English summary) **94c:47053**
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Kozlov, G. V. (*with* Lyubishkin, V. A.) Regularized higher-order traces for a harmonic oscillator. (Russian. Russian summary) **94d:34084**

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— Distribution of the eigenvalues of singular differential operators on an interval. (Russian. Russian summary) **94h:34103**

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Provotorov, V. V. Sturm-Liouville-type operators that are generated by a selfadjoint differential expression with a singularity. (Russian) **94i:34159**

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Russakovskii, E. M. The matrix Sturm-Liouville problem with a spectral parameter in the boundary conditions. (Russian) **94f:34169**

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Zhornitskaya, L. A. (*with* Serov, V. S.) On a uniqueness theorem for the Sturm-Liouville operator on an interval with a strongly singular potential. (Russian) **94m:34033**

34L10 Eigenfunction expansions, completeness of eigenfunctions

Božinov, Nikolai S. Necessary and sufficient condition for the reconstruction of functions from their coefficients in the root expansion of a nonlocal Sturm-Liouville operator. (Russian) **94c:34122**

Budaev, V. D. A necessary condition for the Riesz basis property of systems of root functions of an ordinary nonselfadjoint differential operator. (Russian. Russian summary) **94c:34123**

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Freiling, Gerhard *see* **Eberhard, Walter; et al., 94a:34121**

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Sattler, Alfred *see* **Langer, Heinz; et al., 94i:34156**

Saurer, Josef ★ Bases of special functions and their domains of convergence. (English and German summaries) **94m:34218**

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Shikina, G. E. A Hilbert-type inequality in a system of eigen- and associated functions of an even-order differential operator. (Russian. Russian summary) **94c:34124**

— Inequalities of Hilbert and Hausdorff-Young-Riesz type with respect to a system of eigen- and associated functions of an even-order differential operator. (Russian) **94d:34082**

Stepin, S. A. On the expansion in eigenfunctions of the continuous spectrum of the Rayleigh equation. (Russian) **94g:34138**

(Zayed, E. M. E.) *see* **Eberhard, Walter; et al., 94a:34121**

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Balaev, M. K. *see* **Yakubov, S. Ya., 94f:47019**

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Eberhard, Walter (*with* Freiling, Gerhard) An expansion theorem for eigenvalue problems with several turning points. (English summary) **94h:34027**

Edmunds, David E. (*with* Kauffman, Robert M.) Continuous spectrum eigenfunction expansions and the Cauchy problem in L_1. (English summary) **94b:35190**

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Gorelov, V. A. On systems consisting of a finite and an infinite number of root functions of different boundary value problems. (Russian) **94g:47060**

Gurevich, A. P. A boundary value problem with a power singularity. (Russian) **94b:34030**

Guseinov, G. Sh. Spectral analysis of second-order multiparameter differential equations with periodic coefficients. (Russian. Russian summary) **94k:34157**

Inayat-Hussain, A. A. (*with* Zorzan, C.) The Laplace transform and spectral representations of polynomial operator pencils. (English summary) **94i:47111**

Isaev, H. Glimpses of multiparameter spectral theory. **94b:47028**

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Kritskov, L. V. Representation and estimates of root functions of singular differential operators on an interval. II. (Russian. Russian summary) **94c:34132**

Langer, Heinz (*with* Mennicken, Reinhard; Möller, Manfred) A second order differential operator depending non-linearly on the eigenvalue parameter. (English summary) **94k:34032**

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Poerschke, Thomas (*with* Stolz, Günter) On eigenfunction expansions and scattering theory. **94a:47010**

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Tretter, Christiane ★ On λ-nonlinear boundary eigenvalue problems. (English and German summaries) **94i:34042**
Trooshin, Igor Abel summability of the series of eigen- and associated functions of the integral and differential operators. (*see* **94b:47001**)
Trushin, I. Yu. On the summability of expansions in eigenfunctions of differential and integral operators. (Russian. Russian summary) **94j:47031**
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34L15 Estimation of eigenvalues, upper and lower bounds

Ashbaugh, Mark S. (*with* Benguria, Rafael D.) Eigenvalue ratios for Sturm-Liouville operators. (English summary) **94c:34125**
Bailey, P. B. (*with* Everitt, W. Norrie; Weidmann, Joachim; Zettl, Anton) Regular approximations of singular Sturm-Liouville problems. (English summary) **94a:34122**
Benguria, Rafael D. *see* **Ashbaugh, Mark S., 94c:34125**
Bennewitz, C. (*with* Veling, E. J. M.) Optimal bounds for the spectrum of a one-dimensional Schrödinger operator. (English summary) **94c:34126**
Everitt, W. Norrie *see* **Bailey, P. B.; et al., 94a:34122**
Gekhtman, Moisei Meerovich (*with* Zagirov, Yu. M.) Sharp estimates for normalized eigenfunctions of the Sturm-Liouville operator on a finite interval with a continuous positive weight function. (Russian)
— *see also* **Gekhtman, Moisei Meerovich; et al.**
Veling, E. J. M. *see* **Bennewitz, C., 94c:34126**
Weidmann, Joachim *see* **Bailey, P. B.; et al., 94a:34122**
Zagirov, Yu. M. *see* **Gekhtman, Moisei Meerovich; et al.**
Zettl, Anton *see* **Bailey, P. B.; et al., 94a:34122**

Items with secondary classifications in 34L15

Dauge, Monique (*with* Helffer, Bernard) Eigenvalues variation. I. Neumann problem for Sturm-Liouville operators. **94j:47097**
Helffer, Bernard *see* **Dauge, Monique, 94j:47097**
Lee, Gyou-Bong Some convergence rates for eigenvalues of intermediate operators. **94i:65066**
Marletta, Marco Automatic solution of regular and singular vector Sturm-Liouville problems. (English summary) **94f:65074**

34L20 Asymptotic distribution of eigenvalues, asymptotic theory of eigenfunctions

Gekhtman, Moisei Meerovich (*with* Zagirov, Yu. M.) On the maximally possible rate of growth of normalized eigenfunctions of a class of operators of Sturm-Liouville type with a continuous positive weight function. (Russian)
Kiselevskiĭ, A. G. *see* **Ulitko, A. F.; et al., 94h:34104**
Kritskov, L. V. Distribution of the eigenvalues of singular differential operators on an interval. (Russian. Russian summary) **94h:34103**
Palyutkin, V. G. Distribution of eigenvalues of the Sturm-Liouville problem for some equations on a half-line. (Russian. Russian summary) **94d:34083**
— Distribution of the spectrum of one-dimensional Sturm-Liouville problems under lacunarity conditions for the potential. (Russian. Russian summary) **94b:34114**
Pechentsov, A. S. Regularized traces of singular differential operators of higher orders. (English summary) **94b:34115**
Shorfi, L. *see* **Ulitko, A. F.; et al., 94h:34104**
Stakun, A. A. Asymptotic expansions of the solutions of a differential equation and related spectral problems. (Russian) **94g:34139**
— On the properties of a differential operator with a turning point at infinity. (Russian) **94g:34140**
Ulitko, A. F. (*with* Kiselevskiĭ, A. G.; Shorfi, L.) Distribution of the eigenvalues of the Sturm-Liouville operator in the Dirichlet problem for a truncated wedge. (Russian. Russian summary) **94h:34104**
Yakubov, V. Ya. Attainability of sharp estimates and the different order of growth of normalized vector eigenfunctions of spectral boundary value problems for a Dirac-type system. (Russian) **94m:34219**
Zagirov, Yu. M. *see* **Gekhtman, Moisei Meerovich**

Items with secondary classifications in 34L20

Allakhverdiev, T. I. *see* **Kerimov, N. B., 94j:34028**
Browne, Patrick J. (*with* Sleeman, B. D.) A note on the characterisation of eigencurves for certain two parameter eigenvalue problems in ordinary differential equations. **94b:34021**
Carlson, Robert Inverse spectral theory for some singular Sturm-Liouville problems. **94k:34027**
Kerimov, N. B. (*with* Allakhverdiev, T. I.) On a boundary value problem. II. (Russian. Russian summary) **94j:34028**
Lyubishkin, V. A. (*with* Podol'skiĭ, V. E.) On the summability of regularized traces of differential operators. (Russian. Russian summary) **94i:47005**
Marchenko, V. A. An estimate for the remainder term in an asymptotic formula for a spectral function of the Sturm-Liouville operator. (Russian) **94b:34113**
Misyura, T. V. An asymptotic formula for Weyl solutions of the Dirac equations. (Russian) **94m:34043**
Pankratova, T. F. The splitting of eigenvalues in a double potential well under a partial breaking of symmetry [MR 89a:81018]. (English summary) (*see* **94g:00020**)
Podol'skiĭ, V. E. *see* **Lyubishkin, V. A., 94i:47005**
Reddy, Satish C. Pseudospectra of Wiener-Hopf integral operators and constant-coefficient differential operators. (English summary) **94m:47057**
Sleeman, B. D. *see* **Browne, Patrick J., 94b:34021**
Sultanaev, Ya. T. *see* **Wagner, Eberhard, 94g:40009**
Wagner, Eberhard (*with* Sultanaev, Ya. T.) Some applications of Tauberian theorems. (Russian. Russian summary) **94g:40009**
Yakubov, V. Ya. A Dirac-type system with variable coefficients. (Russian. Russian summary) **94c:34130**
— Different orders of growth of normalized eigenfunctions of the Sturm-Liouville problem with continuous weight. (Russian. Russian summary) **94h:34028**

34L25 Scattering theory

Aktosun, Tuncay Scattering and inverse scattering for a second-order differential equation. (English summary) **94f:34164**
Grinberg, N. I. On an uncertainty principle for a scattering transform. (English summary) **94g:34141**
Serov, V. S. (*with* Tkachenko, D. S.) On the problem of the reconstruction of the potential in the Schrödinger operator on the line by means of the Born approximation. (Russian. Russian summary) **94g:34142**
Tkachenko, D. S. *see* **Serov, V. S., 94g:34142**
Venakides, Stephanos *see* **Zhang, Taiyan, 94g:34143**
Xu, Bang Qing The inverse scattering matrix for the Schrödinger equation when the potential $q(x) \in L^1_1$ with a singular term. (English summary) **94f:34165**
Zhang, Taiyan (*with* Venakides, Stephanos) Periodic limit of inverse scattering. (English summary) **94g:34143**

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Aktosun, Tuncay A factorization of the scattering matrix for the Schrödinger equation and for the wave equation in one dimension. (English summary) **94b:81136**
— (*with* van der Mee, Cornelis) Nonuniqueness in inverse acoustic scattering on the line. (English summary) **94m:34031**
Bättig, Daniel (*with* Grébert, B.; Guillot, Jean-Claude; Kappeler, Thomas) Foliation of phase space for the cubic nonlinear Schrödinger equation. **94c:58155**
Beals, Richard (*with* Sattinger, David H.) Integrable systems and isomonodromy deformations. (English summary) **94e:58051**
Deift, Percy (*with* Zhou, Xin) A steepest descent method for oscillatory Riemann-Hilbert problems. Asymptotics for the MKdV equation. **94d:35143**
DeSanto, John A. ★ Scalar wave theory. (English summary) **94g:35156**
Gesztesy, Friedrich (*with* Karwowski, Witold; Zhao, Zhong Xin) Limits of soliton solutions. **94b:35242**
Ghosh, Chandana (*with* Roy Chowdhury, A.) Zakharov-Shabat inverse problem with meromorphic reflection coefficient. (English summary) **94m:35282**
Grébert, B. *see* **Bättig, Daniel; et al., 94c:58155**
Guillot, Jean-Claude *see* **Bättig, Daniel; et al., 94c:58155**
Gutman, Semion (*with* Klibanov, M. V.) Two versions of quasi-Newton method for multidimensional inverse scattering problem. (English summary) **94h:65109**
Kamvissis, Spyridon On the long time behavior of the doubly infinite Toda lattice under initial data decaying at infinity. (English summary) **94c:58086**
Kappeler, Thomas *see* **Bättig, Daniel; et al., 94c:58155**
Karwowski, Witold *see* **Gesztesy, Friedrich; et al., 94b:35242**
Khan, S. (*with* Pearson, D. B.) Subordinacy and spectral theory for infinite matrices. (English summary) **94a:47066**
Khristov, E. Kh. *see* **Mishev, Ĭordan, 94i:34060**
Khruslov, Ê. Ya. (*with* Shepel'skiĭ, D. G.) Inverse scattering method in electromagnetic sounding theory. (English summary) **94m:78012**
Klibanov, M. V. *see* **Gutman, Semion, 94h:65109**
Kurasov, P. B. On the inverse scattering problem for rational reflection coefficients. (English summary) **94i:81145**
Leeb, H. *see* **Schnizer, W. A., 94k:81048**
Levitan, B. M. On the completeness of products of solutions of two Sturm-Liouville equations. **94j:34088**
Liu, Ji Jun (*with* Wang, Yuan Ming) Reflection coefficients of layered-inhomogeneous media. (Chinese. English and Chinese summaries)
van der Mee, Cornelis *see* **Aktosun, Tuncay, 94m:34031**
Mel'nikov, Yu. B.[1] *see* **Wehrhahn, R. F., 94d:81234**
Mishev, Ĭordan An inverse problem in quantum scattering theory for the radial Schrödinger equation. II. Nonlinear orbital moments. (Russian. English and Russian summaries) **94d:81233**
— (*with* Khristov, E. Kh.) An application of Crum-Krein operators to expansions in products of solutions of two Schrödinger equations with identical spectra. (Russian. English and Russian summaries) **94i:34060**
Pearson, D. B. *see* **Khan, S., 94a:47066**
Poliatzky, Nathan Normalization of scattering states, scattering phase shifts and Levinson's theorem. (English summary) **94d:81229**
Provotorov, V. V. A new approach in the solution of inverse spectral problems. (Russian. Russian summary) **94f:34034**
Ramm, Alexander G. ★ Multidimensional inverse scattering problems. (English summary) **94e:35004**
Roy Chowdhury, A. *see* **Ghosh, Chandana, 94m:35282**
Sabatier, Pierre C. Inverse problems related to integrable nonlinear partial differential equations. (English summary) **94i:35197**
— Exotics of the Schrödinger problem on the line. (English summary) (*see* **94k:81331**)
Sakhnovich, A. L. Exact solutions of nonlinear equations and the method of operator identities. (English summary) **94e:35044**
Sattinger, David H. *see* **Beals, Richard, 94e:58051**
Schnizer, W. A. (*with* Leeb, H.) Exactly solvable models for the Schrödinger equation from generalized Darboux transformations. (English summary) **94k:81048**
Shepel'skiĭ, D. G. *see* **Khruslov, Ê. Ya., 94m:78012**

Shubov, Marianna A. High-energy asymptotics of resonances for three-dimensional Schrödinger operator with screened Coulomb potential. (English summary) **94m:81128**
Sokhin, A. S. Identification of a bilinear evolution system described by a transport equation. (Russian) **94h:93026**
Sukhanov, V. V. Large time asymptotic behavior of solutions of the Cauchy problem for a system of the KdV type with rapidly decaying nonsoliton initial data [MR 89c:35020]. (English summary) (*see* **94g:00020**)
Syroid, I.-P. P. Matrix solutions of the equation $\mathfrak{B}U_t = -U_{xx} + 2U^3 + \mathfrak{B}[U_x, U] + 4cU$: development of the method of the inverse scattering problem. (Ukrainian. Russian and Ukrainian summaries) **94d:35145**
Wang, Yuan Ming *see* **Liu, Ji Jun**
Wehrhahn, R. F. (*with* Mel′nikov, Yu. B.[1]) Quantum mechanics inversion for symmetry scattering. (English summary) **94d:81234**
Wilson, George Bispectral commutative ordinary differential operators. **94m:58180**
Yang, Liu Scattering and spectral theory for Stark Hamiltonians in one dimension. **94k:81323**
Yurko, V. A. An inverse problem for differential operators on the half-axis. (Russian) **94a:34017**
Zhao, Zhong Xin *see* **Gesztesy, Friedrich; et al., 94b:35242**
Zhou, Xin *see* **Deift, Percy, 94d:35143**

34L30 Nonlinear ordinary differential operators

Buslaev, A. P. Some properties of the spectrum of nonlinear equations of Sturm-Liouville type. (Russian. Russian summary) **94m:34220**
Dilcher, Karl (*with* Stolarsky, Kenneth B.) On a class of nonlinear differential operators acting on polynomials. **94b:34116**
Stolarsky, Kenneth B. *see* **Dilcher, Karl, 94b:34116**

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Berestycki, Henri (*with* Dias, J.-P.; Esteban, Maria J.; Figueira, M.) Eigenvalue problems for some nonlinear Wheeler-DeWitt operators. (English summary) **94k:35318**
Dias, J.-P. *see* **Berestycki, Henri; et al., 94k:35318**
Esteban, Maria J. *see* **Berestycki, Henri; et al., 94k:35318**
Figueira, M. *see* **Berestycki, Henri; et al., 94k:35318**
Galaktionov, V. A. On a generalization of scalar field equation, admitting a complex set of positive solutions. **94i:35078**
Guo, Ji Chuan 2π-periodic solutions for the nonconservative systems of higher order. (English summary) **94g:34062**
Karasëv, M. V. (*with* Pereskokov, A. V.) Turning points and phase shifts in ordinary differential equations with saturating nonlinearity. (English summary) **94g:34097**
Lindqvist, Peter Note on a nonlinear eigenvalue problem. (English summary) **94d:34031**
Lorenzi, Alfredo An inverse spectral problem for a nonlinear ordinary differential equation. (English summary) **94h:34014**
Pereskokov, A. V. *see* **Karasëv, M. V., 94g:34097**
Shibata, Tetsutaro Asymptotic behavior of the variational eigenvalues for semilinear Sturm-Liouville problems. **94g:34036**

34L40 Particular operators (Dirac, one-dimensional Schrödinger, etc.)

Albanese, Claudio KAM theory in momentum space and quasiperiodic Schrödinger operators. (English and French summaries) **94g:34144**
Amour, Laurent Variétés isospectrales et caractérisation des spectres pour les opérateurs AKNS. (English and French summaries) [Isospectral sets and characterization of spectra for AKNS operators] **94f:34166**
Aquilanti, Vincenzo (*with* Cavalli, Simonetta; Sevryuk, M. B.) Asymptotic (semiclassical) equivalence for Schrödinger equations with singular potentials and for related systems of two first-order equations. (English summary) **94i:34158**
Asadullin, N. M. Regularized sums of the eigenvalues of a singular boundary value problem. (Russian) **94g:34145**
Buslaev, V. S. Spectral properties of adiabatically perturbed differential operators with the periodic coefficients. (English summary) **94a:34123**
Cavalli, Simonetta *see* **Aquilanti, Vincenzo; et al., 94i:34158**
Gesztesy, Friedrich (*with* Holden, Helge; Simon, Barry; Zhao, Zhong Xin) Trace formulae and inverse spectral theory for Schrödinger operators. (English summary) **94c:34127**
Holden, Helge *see* **Gesztesy, Friedrich; et al., 94c:34127**
Kirsch, W. (*with* Molchanov, S. A.; Pastur, L. A.) One-dimensional Schrödinger operators with high potential barriers. **94f:34167**
Kozlov, G. V. (*with* Lyubishkin, V. A.) Regularized higher-order traces for a harmonic oscillator. (Russian. Russian summary) **94d:34084**
Levitan, B. M. (*with* Mamatov, A. È.) Estimation of the Cauchy matrix function for the Dirac system in the case of finite-gap nonperiodic potentials. (Russian. Russian summary) **94e:34078**
Lyubishkin, V. A. *see* **Kozlov, G. V., 94d:34084**
Mamatov, A. È. *see* **Levitan, B. M., 94e:34078**
Molchanov, S. A. *see* **Kirsch, W.; et al., 94f:34167**
Novitskiĭ, M. V. Complete description of basic discrete series of spectral invariants of the Hill operator. (Russian) **94f:34168**
Obaya García, Rafael (*with* Paramio, Miguel) Directional differentiability of the rotation number for the almost-periodic Schrödinger equation. **94c:34128**
Paramio, Miguel *see* **Obaya García, Rafael, 94c:34128**
Pastur, L. A. *see* **Kirsch, W.; et al., 94f:34167**
Provotorov, V. V. Sturm-Liouville-type operators that are generated by a selfadjoint differential expression with a singularity. (Russian) **94i:34159**
Qian, Min Ping *see* **Sun, Feng Zhu, 94c:34129**
Russakovskiĭ, E. M. The matrix Sturm-Liouville problem with a spectral parameter in the boundary conditions. (Russian) **94f:34169**
Sevryuk, M. B. *see* **Aquilanti, Vincenzo; et al., 94i:34158**
Simon, Barry *see* **Gesztesy, Friedrich; et al., 94c:34127**
Sun, Feng Zhu (*with* Qian, Min Ping) Lyapunov exponent and rotation number for stochastic Dirac operators. (English summary) **94c:34129**
— Kotani theory for stochastic Dirac operators. (English summary) **94i:34160**
Yakubov, V. Ya. A Dirac-type system with variable coefficients. (Russian. Russian summary) **94c:34130**
Zamonov, M. Z. On the infinity [infinite-gap property] of periodic potentials of the Dirac operator. (Russian. Tajiki summary) **94m:34221**
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Akiba, Tomoya (*with* Kuroiwa, Jousuke; Kakizaki, Jun-ichi) Fluctuating fields at a sphaleron and a generalized Levinson theorem. (English summary) **94h:81165**
Aktosun, Tuncay A factorization of the scattering matrix for the Schrödinger equation and for the wave equation in one dimension. (English summary) **94b:81136**
— Scattering and inverse scattering for a second-order differential equation. (English summary) **94f:34164**
Allakhverdiev, B. P. On the theory of nonselfadjoint operators of Schrödinger type with a matrix potential. (Russian. Russian summary) **94d:47049**
Amour, Laurent Inverse spectral theory for the AKNS system with separated boundary conditions. (English summary) **94i:34034**
Andrianov, I. V. A new asymptotic method for the integration of equations of quantum mechanics with strong coupling. (Russian) **94d:81022**
Arai, Asao An abstract sum formula and its applications to special functions. **94c:47034**
Ashbaugh, Mark S. (*with* Benguria, Rafael D.) Eigenvalue ratios for Sturm-Liouville operators. (English summary) **94c:34125**
Barut, A. O. (*with* Bracken, A. J.; Komy, S.; Ünal, N.) New approach to the determination of eigenvalues and eigenfunctions for a relativistic two-fermion equation. (English summary) **94i:81016**
Bättig, Daniel (*with* Grébert, B.; Guillot, Jean-Claude; Kappeler, Thomas) Foliation of phase space for the cubic nonlinear Schrödinger equation. **94c:58155**
Bauhardt, Wolfgang (*with* Pöppe, Christoph) The Zakharov-Shabat inverse spectral problem for operators. (English summary) **94g:35207**
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Bennewitz, C. (*with* Veling, E. J. M.) Optimal bounds for the spectrum of a one-dimensional Schrödinger operator. (English summary) **94c:34126**
Boimatov, K. Kh. (*with* Sharifov, A.) Coercive properties of nonlinear Schrödinger and Dirac operators. (Russian) **94a:35102**
Bolley, C. (*with* Helffer, Bernard) An application of semi-classical analysis to the asymptotic study of the supercooling field of a superconducting material. (English and French summaries) **94k:82120**
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Carlson, Robert An inverse spectral problem for Sturm-Liouville operators with discontinuous coefficients. (English summary) **94d:34020**
Chernoff, Paul R. (*with* Hughes, Rhonda J.) A new class of point interactions in one dimension. (English summary) **94a:47080**
Cojuhari, Petru A. On the spectrum of singular nonselfadjoint differential operators. (English summary) **94m:47090**
Daskalov, V. B. On the inverse problems for the regular Sturm-Liouville operator. **94f:34033**
— On the inverse problems for the regular Dirac operator. **94i:34035**
Dijksma, Aalt (*with* Langer, Heinz; de Snoo, Henk) Eigenvalues and pole functions of Hamiltonian systems with eigenvalue depending boundary conditions. (English summary) **94m:47091**
Everitt, W. Norrie (*with* Race, D.) The regularization of singular second-order differential expressions using Frentzen-type quasi-derivatives. **94i:34059**
— Some remarks on the Titchmarsh-Weyl m-coefficient and associated differential operators. **94k:34043**
Figotin, Alexander *see* **Pastur, L. A., 94h:47068**
Gesztesy, Friedrich (*with* Unterkofler, K.) Isospectral deformations for Sturm-Liouville and Dirac-type operators and associated nonlinear evolution equations. (English summary) **94f:35124**
— A complete spectral characterization of the double commutation method. (English summary) **94m:47093**
Geurts, Bernard J. A new finite difference scheme adapted to the one-dimensional Schrödinger equation. (English summary) **94m:65144**
Gilbert, D. J. Properties of Schrödinger operators with singular continuous spectrum. (English summary) (*see* **94e:81005**)
Goldhirsch, I. *see* **Kuske, R.; et al., 94i:82007**
Gordon, Y. A. (*with* Jakšić, Vojkan; Molchanov, S. A.; Simon, Barry) Spectral properties of random Schrödinger operators with unbounded potentials. (English summary) **94h:82037**
Grébert, B. *see* **Bättig, Daniel; et al., 94c:58155**
Grecchi, Vincenzo (*with* Maioli, Marco; Sacchetti, Andrea) Stark ladders of resonances: Wannier ladders and perturbation theory. (English summary) **94k:81335**
Guillot, Jean-Claude *see* **Bättig, Daniel; et al., 94c:58155**
Helffer, Bernard *see* **Bolley, C., 94k:82120**
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Il′yasov, T. Sh. (*with* Muratbekov, M. B.; Beisenbaev, K. S.) Self-adjointness, separability and two-sided estimates for the s-numbers of the Dirac operator. (Russian. English, Russian and Kazakh summaries) **94i:47073**
Inayat-Hussain, A. A. (*with* Zorzan, C.) The Laplace transform and spectral representations of polynomial operator pencils. (English summary) **94i:47111**
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Kappeler, Thomas *see* **Bättig, Daniel; et al., 94c:58155**
Klauder, John R. *see* **Zhu, Chengjun, 94k:81058**
Klein, Peter P. Including eigenvalues of the plane Orr-Sommerfeld problem. (English summary) **94i:76029**
Knobel, Roger (*with* Lowe, Bruce D.) An inverse Sturm-Liouville problem for an impedance. (English summary) **94e:34020**

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Krall, Allan M. (*with* Littlejohn, Lance L.) The Legendre polynomials under a left definite energy norm. (English summary) **94j:34029**
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Lavine, Richard The eigenvalue gap for one-dimensional convex potentials. (English summary) **94i:35144**
Lee, Gyou-Bong Some convergence rates for eigenvalues of intermediate operators. **94i:65066**
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Marchenko, V. A. An estimate for the remainder term in an asymptotic formula for a spectral function of the Sturm-Liouville operator. (Russian) **94b:34113**
Mezincescu, G. A. Internal Lifschitz singularities for one-dimensional Schrödinger operators. (English summary) **94k:82051**
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Nikol'skaya, E. I. An estimate for the difference of partial sums of spectral expansions of an absolutely continuous function that correspond to two one-dimensional Schrödinger operators with complex-valued potentials in the class L_p, for $p > 1$. (Russian. Russian summary) **94d:34081**
Noskowicz, S. H. *see* **Kuske, R.; et al., 94i:82007**
Palyutkin, V. G. Distribution of eigenvalues of the Sturm-Liouville problem for some equations on a half-line. (Russian. Russian summary) **94d:34083**
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Pastur, L. A. (*with* Figotin, Alexander) ★ Spectra of random and almost-periodic operators. **94h:47068**
Pearson, D. B. Value distribution and spectral analysis of differential operators. (English summary) **94g:34137**
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Poliatzky, Nathan Levinson's theorem for the Dirac equation. (English summary) **94a:81132**
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Riedel, Norbert Absence of Cantor spectrum for a class of Schrödinger operators. (English summary) **94c:47054**
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Salem, L. D. (*with* Montemayor, R.) Modified Riccati approach to partially solvable quantum Hamiltonians. III. Related families of Pöschl-Teller potentials. (English summary) **94c:81028**
Schuss, Z. *see* **Kuske, R.; et al., 94i:82007**
Serov, V. S. (*with* Tkachenko, D. S.) On the problem of the reconstruction of the potential in the Schrödinger operator on the line by means of the Born approximation. (Russian. Russian summary) **94g:34142**
Shabat, A. B. *see* **Veselov, A. P., 94m:58179**
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Shen, Chao Liang On the second eigenvalue and the second eigenfunction of a class of selfadjoint second order linear systems. (English summary) **94j:34018**
Shepel'skii, D. G. An inverse spectral problem for a Dirac-type operator with "sewing". (Russian. Russian summary) **94j:34013**
Shi, Qin Chun Some trace formulas for systems of one-dimensional Dirac equations. (Chinese. Chinese summary) **94k:34158**
Shubin Christ, Carol An inverse problem for the Schrödinger equation with a radial potential. (English summary) **94c:35171**
Simbirskii, M. N. Inverse problem for the Sturm-Liouville operator with almost-periodic potential having only positive Fourier exponents. **94f:34035**
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Frentzen, H. (*with* Race, D.; Zettl, Anton) On the commutativity of certain quasi-differential expressions. II. (English summary) **94g:34146**
Kritskov, L. V. Representation and estimates of root functions of singular differential operators on an interval. II. (Russian. Russian summary) **94c:34132**
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35–XX Partial differential equations

35–01 Instructional exposition (textbooks, tutorial papers, etc.)

Chen, Zhi Hao ★ Shuxue wuli fangcheng. (Chinese. Chinese summary) [Equations of mathematical physics] **94h:35001**
(Fadiman, Regine) *see* **Hackbusch, Wolfgang, 94b:35001**
Farlow, Stanley J. ★ Partial differential equations for scientists and engineers. (English summary) **94g:35001**
(Gray, Alfred) *see* **Pinsky, Mark A., 94e:35001**
Gvazava, J. ★ Hiperboluri da shereuli tipis gantolebat'a zogiert'i k'lasi. (Georgian. Georgian summary) [Some classes of hyperbolic equations and equations of mixed type] **94k:35001**
Hackbusch, Wolfgang ★ Elliptic differential equations. **94b:35001**
(Ion, Patrick D. F.) *see* **Hackbusch, Wolfgang, 94b:35001**
Kozhanov, A. I. ★ Краевые задачи для уравнений математической физики нечетного порядка. (Russian. Russian summary) [Boundary value problems for odd-order equations of mathematical physics] **94a:35001**
Pinsky, Mark A. ★ Partial differential equations and boundary value problems with applications. **94e:35001**
Rauch, Jeffrey ★ Partial differential equations. (English summary) **94e:35002**
Renardy, Michael (*with* Rogers, Robert C.) ★ An introduction to partial differential equations. **94c:35001**
Rogers, Robert C. *see* **Renardy, Michael, 94c:35001**
Vvedensky, Dimitri ★ Partial differential equations with Mathematica. (English summary) **94e:35003**

Items with secondary classifications in 35–01

Biler, Piotr (*with* Nadzieja, Tadeusz) ★ Problems and examples in differential equations. **94b:34001**
Dieudonné, Jean Alexandre ★ Treatise on analysis. Vol. VIII. **94b:00001**
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Hill, James M. ★ Differential equations and group methods for scientists and engineers. **94d:34001**
Ito, Masaaki SYMCD—a REDUCE package for finding symmetries and conserved densities of systems of nonlinear evolution equations. (English summary)
Itô, Seizô ★ Diffusion equations. (English summary) **94b:35128**
Nadzieja, Tadeusz *see* **Biler, Piotr, 94b:34001**

35–02 Research exposition (monographs, survey articles)

Begehr, Heinrich (*with* Gilbert, Robert P.) ★ Transformations, transmutations, and kernel functions. Vol. 1. (English summary) **94g:35002**
(Gavosto, Estela A.) *see* **Krantz, Steven G., 94a:35002**
Gilbert, Robert P. *see* **Begehr, Heinrich, 94g:35002**
Kalinowski, Marek Wojciech ★ Riemann waves and their applications. (English summary) **94d:35001**
Krantz, Steven G. ★ Partial differential equations and complex analysis. **94a:35002**
Kuchment, P. A. ★ Floquet theory for partial differential equations. **94h:35002**
(Marcus, Solomon) *see* **Nicolescu, Miron, 94m:35001**
Nicolescu, Miron ★ Opera matematică. (Romanian) [Mathematical works] **94m:35001**
Pao, C. V. ★ Nonlinear parabolic and elliptic equations. **94c:35002**
(Peloso, Marco M.) *see* **Krantz, Steven G., 94a:35002**
Ramm, Alexander G. ★ Multidimensional inverse scattering problems. (English summary) **94e:35004**

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Carmona, René A. (*with* Molchanov, S. A.) Parabolic Anderson problem and intermittency. (English summary) **94h:35080**
DeSanto, John A. ★ Scalar wave theory. (English summary) **94g:35156**
DiBenedetto, Emmanuele ★ Degenerate parabolic equations. (English summary) **94h:35130**
Dzhuraev, A. D. ★ Degenerate and other problems. (English summary) **94j:35058**
Groetsch, Charles W. ★ Inverse problems in the mathematical sciences. (English summary) **94m:00008**
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Kon, Mark A. Summation of eigenfunction expansions. **94a:35083**
Kress, Rainer Inverse obstacle scattering. (English summary) **94j:35121**
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Nishitani, Tatsuo *see* **Kajitani, Kunihiko, 94f:35074**
Ockendon, J. R. A reminiscence of twenty years of free boundary problems. **94m:35321**
Repin, O. A. ★ Краевые задачи со смещением для уравнений гиперболического и смешанного типов. (Russian. Russian summary) [Boundary value problems with shift for equations of hyperbolic and mixed type] **94m:35209**
Trèves, François ★ Hypo-analytic structures. (English summary) **94e:35014**
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35–03 Historical (must also be assigned at least one classification number from Section 01)

Nakagiri, Shin-ichi Review of Japanese work of the last ten years on identifiability in distributed parameter systems. (English summary) **94e:35005**

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35–04 Explicit machine computation and programs (not the theory of computation or programming)

Ito, Masaaki SYMCD—a REDUCE package for finding symmetries and conserved densities of systems of nonlinear evolution equations. (English summary)
Wolf, Thomas Otto An efficiency improved program LIEPDE for determining Lie-symmetries of PDEs. (English summary) **94k:35002**

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Hereman, Willy SYMMGRP.MAX and other symbolic programs for Lie symmetry analysis of partial differential equations. (English summary) (*see* **94f:58003**)

35–06 Proceedings, conferences, collections, etc.

(Anger, Gottfried) *see* **Inverse problems: principles and applications in geophysics, technology, and medicine, 94d:35002**
(Antontsev, S. N.) *see* **Free boundary problems in continuum mechanics, 94b:35002**
(Baiocchi, Claudio) *see* **Boundary value problems for partial differential equations and applications, 94i:35002**
(Broadbridge, Philip) *see* **Similarity, symmetry and solutions of nonlinear boundary value problems, 94f:35001**
(Chipot, Michel) *see* **Progress in partial differential equations: the Metz surveys, 94g:35003** *and* **94g:35004**
(Clarkson, Peter A.) *see* **Applications of analytic and geometric methods to nonlinear differential equations, 94h:35003**
(Egorov, Yurii Vladimirovich) *see* **Partial differential equations, 94h:35004**
(Fushchich, V. I.) *see* **Symmetry analysis of equations of mathematical physics, 94c:35004**
(Gorenflo, Rudolf) *see* **Inverse problems: principles and applications in geophysics, technology, and medicine, 94d:35002**
(Gurtin, Morton E.) *see* **On the evolution of phase boundaries, 94b:35004**
(Herrero, M. A.) *see* **Recent advances in partial differential equations, 94i:35004**
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(Hoffmann, Karl-Heinz[1]) *see* **Free boundary problems in continuum mechanics, 94b:35002**
(Ibragimov, N. Kh.) *see* **Modern group analysis: advanced analytical and computational methods in mathematical physics, 94i:35003**
(Ishimaru, A.) *see* **Wave propagation in random media (scintillation), 94f:35002**
(Jochmann, Horst) *see* **Inverse problems: principles and applications in geophysics, technology, and medicine, 94d:35002**
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Painlevé Transcendents, their Asymptotics and Physical Applications ★ Painlevé transcendents. **94e:35007**
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Jones, D. S. ★ Ordinary and partial differential equations. Vol. IV. **94c:00027**
Bologna ★ Differential equations in Banach spaces. **94c:34088**
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Analysis, Manifolds and Physics ★ Physics on manifolds. **94j:00023**
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Fort Collins, CO ★ Exploiting symmetry in applied and numerical analysis. **94f:58003**
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Function spaces, differential operators and nonlinear analysis ★ Function spaces, differential operators and nonlinear analysis. **94d:46002**
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Nonlinear partial differential equations and their applications. Collège de France Seminar ★ Nonlinear partial differential equations and their applications. Collège de France Seminar. Vol. XI. **94j:00014**
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Ordinary and partial differential equations ★ Ordinary and partial differential equations. Vol. IV. **94c:00027**
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— ★ Physics on manifolds. **94j:00023**
Paseky ★ Recent developments in theoretical fluid mechanics. **94j:76002**
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— ★ Nonlinear partial differential equations and their applications. Collège de France Seminar. Vol. XI. **94j:00014**
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Shape optimization and free boundaries ★ Shape optimization and free boundaries. **94h:49005**
State of the art and perspectives of studies on nonlinear integrable systems ★ Hisenkei kasekibun kei no kenkyū no genjō to tembō. (Japanese) [State of the art and perspectives of studies on nonlinear integrable systems] **94h:58002**
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State of the Art and Perspectives of Studies on Nonlinear Integrable Systems ★ Hisenkei kasekibun kei no kenkyū no genjō to tembō. (Japanese) [State of the art and perspectives of studies on nonlinear integrable systems] **94h:58002**
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— ★ Motion by mean curvature and related topics. **94m:00028**
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35Axx General theory

35A05 General existence and uniqueness theorems

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— *see also* **Kim, Dohan, 94b:35005**
Do Duc Hung (*with* Gawinecki, Jerzy) Global existence of solution to the initial value problem for nonlinear hyperbolic heat equation. (English summary) **94c:35006**
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Hayashi, Nakao The initial value problem for the derivative nonlinear Schrödinger equation in the energy space. **94c:35007**
— Global existence of small radially symmetric solutions to quadratic nonlinear evolution equations in an exterior domain. **94m:35003**
Kajiwara, Joji (*with* Shon, Kwang Ho) Global existence of holomorphic solutions of differential equations with complex parameters. I. **94g:35005**
Kim, Dohan (*with* Chung, Soon-Yeong) The space of exponentially decreasing entire functions and its application to solvability. **94b:35005**
— *see also* **Lee, Eun Gu, 94c:35009** *and* **Chung, Soon-Yeong; et al., 94d:35003**
Kim, Sung Ki *see* **Chung, Soon-Yeong; et al., 94d:35003**
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Kutev, Nikolai D. On the solvability of Dirichlet's problem for a class of nonlinear elliptic and parabolic equations. (English summary) (*see* **94e:00020**)
Lee, Eun Gu (*with* Kim, Dohan) The extension of solutions for the Cauchy problem in the complex domain. II. **94c:35009**
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Nurubloev, M. Characteristic problem for a second-order nonclassical multidimensional system. (Russian) **94i:35005**
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Shlapunov, A. A. *see* **Tarkhanov, N. N., 94c:35010**
Shon, Kwang Ho *see* **Kajiwara, Joji, 94g:35005**
Soner, Halil Mete *see* **Barles, Guy; et al., 94c:35005**
Song, Min Existence and uniqueness of global solutions to the initial-boundary value problem for coupled nonlinear Schrödinger systems. (Chinese. English and Chinese summaries) **94b:35006**
Souganidis, P. E. *see* **Barles, Guy; et al., 94c:35005**
Tarkhanov, N. N. (*with* Shlapunov, A. A.) Bases with double orthogonality in the Cauchy problem for systems with an injective symbol. (Russian) **94c:35010**
Trần Đứ'c Vân (*with* Nguyen Duy Thai Son) On the uniqueness of global classical solutions of the Cauchy problems for nonlinear partial differential equations of first order. (English summary) **94m:35004**
Varga, Csaba A global existence theorem for hyperbolic differential equations. **94b:35007**
Vlasenko, L. A. (*with* Rutkas, A. G.) Solvability and completeness for an electrodynamic system that is not of Kovalevskaya type. (Russian) **94e:35010**
Xu, Xiang Sheng Existence and uniqueness for the nonstationary problem of the electrical heating of a conductor due to the Joule-Thomson effect. (English summary) **94a:35003**
Zubov, V. I. Differential equations for functions of several independent variables and their application. (Russian) **94b:35008**

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Alifu, Maimaiti Existence and uniqueness of global classical solutions to the Cauchy problem for a coupled system of a nonlinear Schrödinger equation and a nonlinear Klein-Gordon equation. (Chinese. English and Chinese summaries) **94f:35127**
Arkeryd, Leif (*with* Cercignani, Carlo) A global existence theorem for the initial-boundary value problem for the Boltzmann equation when the boundaries are not isothermal. (English summary) **94j:82059**
Boimatov, K. Kh. A system of equations of composite type defined in a multidimensional domain. (Russian) **94d:35116**
Bouillet, Julio E. Nonuniqueness in L^∞: an example. **94h:35099**
Bramanti, Marco (*with* Cerutti, M. Cristina) $W_p^{1,2}$ solvability for the Cauchy-Dirichlet problem for parabolic equations with VMO coefficients. **94j:35180**
Braun, Rüdiger W. A partial differential operator which is surjective on Gevrey classes $\Gamma^d(\mathbf{R}^3)$ with $1 \le d < 2$ and $d \ge 6$ but not for $2 \le d < 6$. (English summary) **94m:35017**
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Cialdea, Alberto A multiple-layer potential theory alternative to Agmon's. **94b:35094**
Colin, T. On the Cauchy problem for a nonlocal nonlinear Schrödinger equation occurring in plasma physics. (English summary) **94g:35202**
Decarreau, A. (*with* Rakotoson, J.-M.) Nonlinear elliptic-parabolic equations with L^1-data. (English summary) **94g:35154**
Ding, Xia Qi (*with* Zhao, Hui Jiang) Global solution of a semilinear parabolic equation. (English summary) **94i:35087**
— *see also* **Wang, Ming Xin², 94h:35110**
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Gourdin, Daniel (*with* Muñoz, Enrique) Solutions C^∞ de systèmes hyperboliques quasi linéaires. (English and French summaries) [C^∞ solutions for quasilinear hyperbolic systems] **94d:35111**
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Hayashi, Nakao Global existence of small solutions to quadratic nonlinear Schrödinger equations. (English summary) **94k:35295**
Hörmander, Lars On the fully nonlinear Cauchy problem with small data. II. **94c:35127**
Huynh Ba Lan (*with* Le Thai Thanh; Nguyen Thanh Long; Nguyen Thuan Bang; Tran Luu Cuong; Trinh Ngoc Minh) On the nonlinear vibrations equation with a coefficient containing an integral. (Russian summary) **94h:35160**
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Kuo, Ts'ang Hai On some existence theorems for quasilinear elliptic equations. (English summary) **94i:35064**
Kusano, Takaši (*with* Naito, Manabu) Kiguradze classes for radial entire solutions of higher order quasilinear elliptic equations. **94e:35060**
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Lin, Long Wei (*with* Yang, Tong) Existence and nonexistence of global continuous solutions to Riemann problem for damped p-system. (English summary) **94d:35095**
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Payne, L. E. (*with* Schaefer, P. W.) Some nonstandard problems for the Poisson equation. **94b:35082**
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Schonbek, T. Uniqueness for a nonlinear heat equation. (English summary) **94j:35075**
Sidz, Leszek The existence and regularity of solutions to the nonlinear equation of flotating water. (English summary) **94h:35029**
Takeuchi, Jiro Le problème de Cauchy pour certaines équations aux dérivées partielles du type de Schrödinger. X. Symétrisations indépendantes du temps. (French summary) [The Cauchy problem for certain partial differential equations of Schrödinger type. X. Time-independent symmetrizations] **94j:35041**
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Trinh Ngoc Minh *see* **Huynh Ba Lan; et al., 94h:35160**
Tychinskaya, L. M. (*with* Èidel'man, S. D.) The Cauchy problem for some diffusion equations with inertia and growing coefficients. (Russian. English and Ukrainian summaries) **94i:35099**
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Wang, Ming Xin² (*with* Ding, Xia Qi) Global solutions, asymptotic behavior and blow-up problems for semilinear heat equations. (English summary) **94h:35110**
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Zajączkowski, W. M. On nonstationary motion of a compressible barotropic viscous fluid bounded by a free surface. (English summary) **94f:35157**
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Zikirov, O. S. Boundary value problems for an equation of composite type. (Russian) **94g:35155**

35A07 Local existence and uniqueness theorems [see also 35H05, 35Sxx]

Cui, Shang Bin Some necessary conditions for local solvability of linear partial differential operators. **94m:35005**
Gramchev, T. Nonsolvability for differential operators with multiple complex characteristics. **94k:35003**
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Sternin, B. Yu. (*with* Shatalov, V. E.) Local solvability of the Cauchy problem in the space of complex-analytic branching functions. (Russian. Russian summary) **94d:35004**

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Bitsadze, A. V. On a hyperbolic system of first-order quasilinear equations. (Russian) **94b:35166**
Cui, Shang Bin (*with* Luo, Xue Bo) Relative fundamental solutions to homogeneous left invariant partial differential operators on the Heisenberg group. (Chinese. Chinese summary) **94i:22025**
Dang, Song Shi (*with* Yu, Jin Hai) Uniqueness of solutions to the nonlinear Molodensky problem in H^{2+s}. (Chinese. English and Chinese summaries) **94h:35069**
Egorov, Yurii Vladimirovich Sur un example d'équation linéaire hyperbolique n'ayant pas de solution. [Example of an unsolvable hyperbolic linear equation] **94b:35157**
Favini, Angelo (*with* Lasiecka, Irena; Tanabe, T.) Abstract differential equations and nonlinear dispersive systems. **94e:34064**
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Métivier, G. Counterexamples to Hölmgren's uniqueness for analytic nonlinear Cauchy problems. (English summary) **94b:35010**
Oganesyan, G. R. On the Cauchy-Kovalevskaya theorem in the Wronskian formulation for equations with singularities. (Russian. English, Russian and Armenian summaries) **94j:35001**
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35A08 Fundamental solutions

Sommen, F. (*with* Xu, Zhen Yuan[1]) Fundamental solutions for operators which are polynomials in the Dirac operator. (English summary) **94b:35009**
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Benson, Chal (*with* Dooley, Anthony H.; Ratcliff, Gail) Fundamental solutions for powers of the Heisenberg sub-Laplacian. **94d:22007**
Cui, Shang Bin (*with* Luo, Xue Bo) Relative fundamental solutions to homogeneous left invariant partial differential operators on the Heisenberg group. (Chinese. Chinese summary) **94i:22025**
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Hamann, Uwe Approximation mittels Linearkombinationen von Fundamentallösungen auf nichtglatten Gebietsrändern. [Approximation by means of linear combinations of fundamental solutions on nonsmooth domain boundaries] **94i:35012**
Kipriyanov, I. A. (*with* Zasorin, Yu. V.) Fundamental solution of the wave equation with several singularities and the Huygens principle. (Russian. Russian summary) **94e:35082**
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Ratcliff, Gail *see* **Benson, Chal; et al., 94d:22007**
Sun, Xiao Yan Uniqueness and existence theorems for solutions to the boundary value problem for ultrahyperbolic equations with constant coefficients. (Chinese. English summary) **94g:35047**
Taniguchi, Kazuo Ultra wave front sets and Fourier integral operators of infinite order with an application. **94d:35176**
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Khrennikov, A. Yu. (*with* Cianci, Roberto) Nonlinear evolution equations with (1, 1)-supersymmetric time. (Russian. English and Russian summaries) **94k:35004**
Mandai, Takeshi Characteristic Cauchy problems for some non-Fuchsian partial differential operators. **94f:35003**
Métivier, G. Counterexamples to Hölmgren's uniqueness for analytic nonlinear Cauchy problems. (English summary) **94b:35010**
Oganesyan, G. R. On the Cauchy-Kovalevskaya theorem in the Wronskian formulation for equations with singularities. (Russian. English, Russian and Armenian summaries) **94j:35001**
Reissig, Michael About a nonstationary mixed problem for holomorphic functions arising by the study of a potential flow past a circular cylinder with permeable surface. **94m:35006**

Items with secondary classifications in 35A10

Gourdin, Daniel Problèmes de Cauchy et de Goursat pour certaines équations non linéaires. (English and French summaries) [Cauchy and Goursat problems for some nonlinear partial differential equations] **94d:35156**
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Reissig, Michael (*with* von Wolfersdorf, Lothar) A simplified proof for a moving boundary problem for Hele-Shaw flows in the plane. **94m:35250**
— Existence and uniqueness of global solutions of regular characteristic Cauchy problems. **94j:35036**
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35A15 Variational methods

Alikhanova, R. I. (*with* Atakishieva, R. Kh.) The behavior of solutions of a class of variational inequalities with variable coefficients in the case of unbounded growth of the order of the inequalities. (Russian) (*see* **94d:00017**)
Atakishieva, R. Kh. *see* **Alikhanova, R. I., (94d:00017)**
Hu, Xi Yan (*with* Zhang, Xue Yuan) M-criteria for the consistent suitability of the Cauchy problem of linear partial differential systems. (English and Chinese summaries) **94b:35011**
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Costa, David G. (*with* Magalhães, Celius A.) Un problème elliptique non-quadratique à l'infini. (English and French summaries) [An elliptic problem nonquadratic at infinity] **94a:35041**
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Mukhyev, B. Boundary value problems for an equation of composite type with growing nonlinearities. (Russian) **94i:35135**
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Berhanu, S. Propagation of singularities in a locally integrable structure. **94f:35004**
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Conte, Robert (*with* Fordy, Allan P.; Pickering, Andrew) A perturbative Painlevé approach to nonlinear differential equations. (English summary) **94k:35005**
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Egorov, Yurii Vladimirovich Removable singularities in the boundary conditions. **94b:35013**
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Johnsson, Gunnar The Cauchy problem in $\mathbf{C}^N$ for linear second order partial differential equations with data on a quadric surface. (English summary) **94m:35008**

Kawai, Takahiro (*with* Takei, Yoshitsugu) The complex-analytic geometry of bicharacteristics and the semi-global existence of holomorphic solutions of linear differential equations—a bridge between the theory of partial differential equations and the theory of holomorphic functions. **94i:35008**

Khavinson, Dmitry (*with* Shapiro, Harold S.) Dirichlet's problem when the data is an entire function. **94d:35005**

Lascar, Bernard (*with* Lascar, Richard) Propagation des singularités Gevrey pour la diffraction. (English summary) [Propagation of Gevrey singularities for diffraction] **94b:35014**

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Leichtnam, Éric Le problème de Cauchy ramifié linéaire pour des données à singularités algébriques. [The linear ramified Cauchy problem for data with algebraic singularities] **94j:35003b**

— Le problème de Cauchy ramifié linéaire pour des données à singularités algébriques. (English and French summaries) [The linear ramified Cauchy problem for data with algebraic singularities] **94j:35003a**

Liu, Lin Qi Propagation of singularities for semilinear hyperbolic equations. (English summary) **94f:35005**

Madi, Nour Saïd Solutions locales pour des opérateurs holomorphes fuchsiens en plusieurs variables. (French summary) [Local solutions for Fuchsian holomorphic operators in several variables] **94j:35004**

Nabaji, Abdellah (*with* Wagschal, C.) Singularités à croissance lente. [Singularities with slow growth] **94k:35007**

Nazaikinskiĭ, V. E. (*with* Shatalov, V. E.; Sternin, B. Yu.) Analytic singularities of solutions of differential equations. **94g:35007**

Ôaku, Toshinori Boundary value problem for Fuchsian partial differential equations and reflection of singularities. **94e:35011**

Ôuchi, Sunao Singularities of solutions of equations with noninvolutive characteristics. I. The case of second order Fuchsian equations. **94h:35006**

— The behaviour of solutions with singularities on a characteristic surface to linear partial differential equations in the complex domains. **94e:35012**

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— *see also* **Hood, Simon, 94j:35173; Hicks, A. C.; et al., 94k:34019** *and* **Ludlow, D. K., 94k:35310**
Czichowski, Günter (*with* Thiede, Maik) Gröbner bases, standard forms of differential equations and symmetry computation. **94a:34021**
Donato, Andrea (*with* Oliveri, Francesco) Reduction to autonomous form by group analysis and exact solutions of axisymmetric MHD equations. (English summary) **94m:76130**
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Estévez, P. G. (*with* Gordoa, P. G.; Martínez Alonso, Luis; Medina Reus, Elena) Modified singular manifold expansion: application to the Boussinesq and Mikhailov-Shabat systems. (English summary) **94m:35290**
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Fujii, Shin-ichi On the uniqueness for the Cauchy problem for elliptic equations with triple characteristics. **94b:35060**
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— (*with* Chopik, V. I.; Cherkasenko, V. P.) Symmetry and exact solutions of multidimensional nonlinear Fokker-Planck equation. (Russian and Ukrainian summaries) **94b:35235**
— (*with* Chopik, V. I.) Symmetry and non-Lie reduction of the nonlinear Schrödinger equation. (Ukrainian. Ukrainian summary) **94i:35180**
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Hood, Simon (*with* Clarkson, Peter A.) Symmetry reductions and exact solutions of the Davey-Stewartson system. (English summary) **94j:35173**
Hu, Xing Biao (*with* Li, Yong[3]) A nonlinear superposition formula for the $(1+2)$-dimensional Caudrey-Dodd-Gibbon-Kotera-Sawada equation. (Chinese. English and Chinese summaries) **94c:35150**
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Medina Reus, Elena *see* **Estévez, P. G.; et al., 94m:35290**
Mironyuk, P. I. (*with* Chopik, V. I.) Conditional Galilei-invariance of the multidimensional nonlinear heat equation. (English summary) (*see* **94c:35004**)

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— *see also* **Donato, Andrea, 94m:76130**
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— *see also* **Anderson, Ian M.; et al., 94g:58257**
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Schief, Wolfgang K. Nonlinear evolution equations and Bäcklund transformations in three dimensions. **94g:58200**
Schiff, Jeremy Bäcklund transformations of MKdV and Painlevé equations. (English summary) **94m:35276**
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Tychinin, V. A. Nonlocal symmetry and generating solutions of the equation $u_0u_{11} + 1 = 0$. (English summary) **94g:35040**
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35A35 Theoretical approximation to solutions

Allgower, Eugene L. (*with* Chien, Ch'êng Shêng; Lee, W.-C.) Bifurcations of corank greater than two. (English summary) **94j:35011**
— (*with* Chien, Ch'êng Shêng) Continuation-minimization methods for stability problems. (English summary) **94j:35012**
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Chien, Ch'êng Shêng *see* **Allgower, Eugene L.; et al., 94j:35011** *and* **94j:35012**
Choi, Yung Sze (*with* McKenna, P. J.; Romano, Manfredi) A mountain pass method for the numerical solution of semilinear wave equations. (English summary) **94k:35019**
Esteban, Juan R. (*with* Marcati, Pierangelo) Approximate solutions to first and second order quasilinear evolution equations via nonlinear viscosity. **94f:35007**
Hamann, Uwe Approximation mittels Linearkombinationen von Fundamentallösungen auf nichtglatten Gebietsrändern. [Approximation by means of linear combinations of fundamental solutions on nonsmooth domain boundaries] **94i:35012**
Hänler, M. *see* **Maz'ya, V. G., 94h:35009**
Jódar, Lucas (*with* Navarro, E.) Approximate solutions and error bounds for coupled boundary value systems of partial differential equations. (English and Arabic summaries) **94b:35020**
Lafitte, Olivier Calcul microlocal de la solution de l'équation des ondes dans la zone d'ombre d'un obstacle strictement convexe de frontière analytique. (English and French summaries) [High-frequency asymptotics for the solution of the wave equation in the shadow of a convex obstacle with analytic boundary] **94b:35021**
Lee, W.-C. *see* **Allgower, Eugene L.; et al., 94j:35011**
Lykova, O. B. Bounded solutions of one class of partial differential equations. (Russian and Ukrainian summaries) **94m:35015**
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Marinets, V. V. An approach to the construction of approximate solutions for differential equations given in implicit form. (Russian. Russian summary) (*see* **94b:34003**)
Mavoungou, Théophile (*with* Cherruault, Yves) Convergence of Adomian's method and applications to nonlinear partial differential equations. **94c:35014**
Maz'ya, V. G. (*with* Hänler, M.) Approximation of solutions of the Neumann problem in disintegrating domains. (English summary) **94h:35009**
McKenna, P. J. *see* **Choi, Yung Sze; et al., 94k:35019**
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Svanstedt, N. (*with* Wyller, J.) A numerical algorithm for the solution of the homogenized p-Poisson equation. **94b:35022**
Wang, Shan Qin Weak solutions to mixed problems for a class of nonlinear hyperbolic equations. (Chinese. English and Chinese summaries) **94d:35007**
Wyller, J. *see* **Svanstedt, N., 94b:35022**

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Aliev, A. Yu. Applicability of the method of nets to the solution of a nonlocal problem for elliptic equations. (Russian) (*see* **94c:65006**)
Amara, M. (*with* Bernardi, Christine; Moussaoui, Mohand) Handling corner singularities by the mortar spectral element method. (English summary) **94k:65153**
Armitage, D. H. (*with* Goldstein, Myron) Tangential harmonic approximation on relatively closed sets. **94i:31005**
Barrett, John W. *see* **Liu, Wen Bin, 94h:35027**
Bernardi, Christine *see* **Amara, M.; et al., 94k:65153**
Čiegis, Raimondas Methods for the numerical investigation of the stability of the solution of stationary problems. (Russian. Russian summary) **94b:65164**
Dzhamalov, S. Z. On the well-posedness of nonlocal boundary value problems for a multidimensional equation of mixed type. (Russian) **94i:35131**
Elliott, Charles M. (*with* Stuart, Andrew M.) The global dynamics of discrete semilinear parabolic equations. (English summary) **94j:65127**
Gastaldi, Fabio On the domain decomposition for boundary value problems. **94m:35054**
Goldstein, Myron *see* **Armitage, D. H., 94i:31005**
Hamann, Uwe Approximation by linear combinations of fundamental solution of the Lamé operator. **94m:35081**
Hong, Bum Il On regularity and approximation for Hamilton-Jacobi equations. **94c:35053**
Kačur, J. (*with* Van Keer, R.) Numerical method for a class of parabolic problems in composite media. (English summary) **94j:65120**
Liu, Wen Bin (*with* Barrett, John W.) A further remark on the regularity of the solutions of the p-Laplacian and its applications to their finite element approximation. **94h:35027**
Lu, Yun Guang Convergence of the viscosity method for a non-strictly hyperbolic conservation law. (English summary) **94k:35190**
Magenes, E. On a Stefan problem on the boundary of a domain. **94b:35311**
Moussaoui, Mohand *see* **Amara, M.; et al., 94k:65153**
Petryshyn, Wolodymyr V. ★ Approximation-solvability of nonlinear functional and differential equations. **94f:47081**
Raitums, Uldis On the approximation of solutions of parabolic equations with discontinuous nonlinearities. (Russian. Russian summary) **94f:35057**
Samoilova, N. A. Investigation of the generalized solvability of a mixed problem for a hyperbolic-parabolic equation. (Russian) **94f:35029**
Stuart, Andrew M. *see* **Elliott, Charles M., 94j:65127**
Trabucho, L. A Galerkin type approximation for elliptic problems. (English summary) (*see* **94e:00020**)
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Yoshikawa, Atsushi Solutions containing a large parameter of a quasi-linear hyperbolic system of equations and their nonlinear geometric optics approximation. (English summary) **94e:35087**
Zarubin, A. G. An iterative method for the approximate solution of an initial-boundary value problem for heat convection equations. (Russian. Russian summary) **94f:35118**

35A40 Numerical approximation to solutions {For numerical analysis, see 65Mxx, 65Nxx, 65P05.}

Kirby, Michael Joseph *see* **Stone, Emily, 94h:35010**
Kobel'kov, G. M. *see* **Veretentseva, T. V.; et al., 94h:35011**
Stone, Emily (*with* Kirby, Michael Joseph) Dependence of bifurcation structures on the approximation of O(2) symmetry. (English summary) **94h:35010**
Sushko, V. G. *see* **Veretentseva, T. V.; et al., 94h:35011**
Veretentseva, T. V. (*with* Kobel'kov, G. M.; Sushko, V. G.) Approximate solutions of some problems with rapidly changing coefficients. (Russian. Russian summary) **94h:35011**

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Babuška, Ivo (*with* Suri, Manil) On locking and robustness in the finite element method. (English summary) **94c:65128**
Bakaev, N. Yu. Estimates for the resolvent of a multidimensional elliptic difference operator. (Russian. Russian summary) **94e:39011**
Čiegis, Raimondas Methods for the numerical investigation of the stability of the solution of stationary problems. (Russian. Russian summary) **94b:65164**
Collino, Francis High order absorbing boundary conditions for wave propagation models: straight line boundary and corner cases. (English summary) **94e:65091**

Foias, Ciprian (*with* Manley, Oscar P.; Temam, Roger) Iterated approximate inertial manifolds for Navier-Stokes equations in 2-D. **94g:35172**
Manley, Oscar P. *see* **Foias, Ciprian; et al., 94g:35172**
Piriverdiev, V. A. A numerical method for solving a problem for a system of partial differential equations. (Russian) (*see* **94c:65006**)
Poorkarimi, H. Euler's method for a first order partial differential equation. **94j:35035**
Qin, Meng Zhao (*with* Zhu, Wen Jie) Construction of symplectic schemes for wave equations via hyperbolic functions $\sinh(x)$, $\cosh(x)$ and $\tanh(x)$. (English summary) **94i:65118**
Ruotsalainen, Keijo On the Galerkin boundary element method for a mixed nonlinear boundary value problem. **94a:47113**
Schmidt, T. Box schemes on quadrilateral meshes. (English and German summaries) **94k:65151**
Sun, Xiao Di *see* **Wu, Qi Guang, 94f:65094**
Suri, Manil *see* **Babuška, Ivo, 94c:65128**
Temam, Roger *see* **Foias, Ciprian; et al., 94g:35172**
Vasil'ev, E. I. A monotone modification of Godunov's scheme of the second order of accuracy with respect to space and time for quasi-one-dimensional nonstationary equations of gas dynamics. (Russian) **94f:76054**
Wu, Qi Guang (*with* Sun, Xiao Di) Numerical solution of a singularly perturbed elliptic-hyperbolic partial differential equation on a nonuniform discretization mesh. (Chinese. English and Chinese summaries) **94f:65094**
Zhu, Wen Jie *see* **Qin, Meng Zhao, 94i:65118**

35A99 None of the above, but in this section

Items with secondary classifications in 35A99

Chung, Soon-Yeong (*with* Kim, Dohan; Kim, Sung Ki) Structure of the extended Fourier hyperfunctions. **94m:46075**
Kim, Dohan *see* **Chung, Soon-Yeong; et al., 94m:46075**
Kim, Sung Ki *see* **Chung, Soon-Yeong; et al., 94m:46075**
Lyons, Russell (*with* Zumbrun, Kevin) Homogeneous partial derivatives of radial functions. **94g:26017**
Zumbrun, Kevin *see* **Lyons, Russell, 94g:26017**

35Bxx Qualitative properties of solutions

35B05 General behavior of solutions of PDE (comparison theorems; oscillation, zeros and growth of solutions; mean value theorems)

Abdullaev, U. G. Unbounded solutions of the Kolmogorov-Petrovskii-Piskunov equation. (Russian. Russian summary) **94e:35016**
Bainov, Drumi Dimitrov (*with* Domshlak, Yu. I.) On the oscillatory properties of the solutions of partial differential-difference equations. (English summary) **94m:35016**
Braun, Rüdiger W. A partial differential operator which is surjective on Gevrey classes $\Gamma^d(\mathbf{R}^3)$ with $1 \le d < 2$ and $d \ge 6$ but not for $2 \le d < 6$. (English summary) **94m:35017**
Bugir, M. K. Mean value theorems and nonoscillability of solutions of partial differential equations in the spaces E^n and P^n. (Russian. Russian and Ukrainian summaries) **94e:35017**
Castro, Alfonso (*with* Kurepa, Alexandra) Radially symmetric solutions to a Dirichlet problem involving critical exponents. (English summary) **94h:35012**
Chang, Ch'iu Chün Correction to: "On the asymptotic behavior of positive radial solutions of semi-linear elliptic equations in $\mathbf{R}^n$" [Chinese J. Math. **19** (1991), no. 2, 157–162; MR 92e:35019]. **94e:35021**
Chen, Qing Yi *see* **Wang, Li Wen, 94e:35021** *and* **Zhao, Bin**
Chen, Zhen Tao Oscillation of solutions to a class of nonlinear parabolic differential equations with delay. (Chinese. English and Chinese summaries) **94i:35013**
Coclite, Mario Michele On a singular nonlinear Dirichlet problem. III. **94m:35018**
Cui, Bao Tong *see* **Lalli, Bikkar S.; et al., 94b:35023**
Dalmasso, Robert Positive radial solutions of semilinear elliptic equations of order $2m$ in annular domains. (English summary) **94m:35019**
Dang, Ha (*with* Schmitt, Klaus) Existence of positive solutions for semilinear elliptic equations in annular domains. **94m:35020**
Domshlak, Yu. I. *see* **Bainov, Drumi Dimitrov, 94m:35016**
El Hachimi, Abderrahmane (*with* de Thélin, François) Infinité de solutions radiales pour un problème elliptique superlinéaire dans une boule. (English and French summaries) [Infinitely many radially symmetric solutions of a superlinear Dirichlet problem in a ball] **94c:35015**
Fan, Ke Xin *see* **Luo, Ya Ping, 94e:35020**
Gang, Lu (*with* Sleeman, B. D.) Nonexistence of global solutions to systems of semilinear parabolic equations. **94e:35018**
Gonçalves Ribeiro, J. M. Arbitrary growth and oscillation versus finite time blow up in nonlinear Schrödinger equations. (English summary) **94a:35010**
Guès, Olivier Ondes multidimensionnelles ε-stratifiées et oscillations. [Multidimensional ε-stratified waves and oscillations] **94a:35011**
Headley, V. B. Comparison theorems for linear elliptic equations. (English summary) **94j:35013**
Horgan, Cornelius O. (*with* Payne, L. E.) Phragmén-Lindelöf type results for harmonic functions with nonlinear boundary conditions. (English summary) **94d:35008**
Kalita, E. A. Singular points of solutions of nonlinear elliptic equations and systems of higher order. (Russian. Russian summary) **94g:35014**
Kawano, Nichiro (*with* Yanagida, Eiji; Yotsutani, Shoji) Structure theorems for positive radial solutions to $\Delta u + K(|x|)u^p = 0$ in $\mathbf{R}^n$. **94k:35020**
Khudaĭverenov, N. O. Positive solutions of nonlinear differential equations. (Russian) **94c:35016**
Kurepa, Alexandra *see* **Castro, Alfonso, 94h:35012**
Lalli, Bikkar S. (*with* Yu, Yuan Hong; Cui, Bao Tong) Oscillation of hyperbolic equations with functional arguments. **94b:35023**
Li, Yan Yan On $-\Delta u = K(x)u^5$ in $\mathbf{R}^3$. (English summary) **94c:35017**
Li, Yi² On the positive solutions of the Matukuma equation. **94e:35019**
Lin, Ying Biao *see* **Yang, Shi Xin, 94d:35010**
Liu, Xian Gao Multiplicity of solutions with critical growth to quasilinear elliptic equations. (Chinese. Chinese summary) **94d:35009**
López-Gómez, Julián On the uniqueness for the periodic Lotka-Volterra competition model with diffusion. (English summary) (*see* **94e:00020**)
Luo, Ya Ping (*with* Fan, Ke Xin) Blow-up of solutions to quasilinear parabolic equations. (Chinese. English and Chinese summaries) **94e:35020**
Mo, Jia Qi A comparison theorem for a class of higher-order nonlinear elliptic equations. (Chinese. Chinese summary) **94f:35008**
Passaseo, Donato Existence and multiplicity of positive solutions for elliptic equations with supercritical nonlinearity in contractible domains. (Italian. English summary) **94b:35024**
Payne, L. E. *see* **Horgan, Cornelius O., 94d:35008**
Schmitt, Klaus *see* **Dang, Ha, 94m:35020**
Sleeman, B. D. *see* **Gang, Lu, 94e:35018**
Song, Shou Gen *see* **Yu, Jian She, 94g:35015**
Swanson, Charles A. (*with* Yu, Lao Sen) Radial polyharmonic problems in $\mathbf{R}^N$. **94c:35018**
— (*with* Yu, Lao Sen) Asymptotics for semilinear field equations with slowly decaying mass. **94m:35021**
de Thélin, François *see* **El Hachimi, Abderrahmane, 94c:35015**
Wang, Li Wen (*with* Chen, Qing Yi) On the blow-up for quasilinear parabolic equations. (English summary) **94e:35021**
Wong, Fu Hsiang (*with* Yeh, Cheh Chih; Yu, Shiueh Ling) On bounded positive entire solutions of elliptic equation with application to a parabolic initial value problem. (English summary) **94m:35022**
Xue, Ru Ying Positive solutions of nonlinear elliptic equations with mixed boundary conditions. (English summary) **94a:35012**
Yanagida, Eiji *see* **Kawano, Nichiro; et al., 94k:35020**
Yang, Shi Xin (*with* Lin, Ying Biao) Positive solutions to nonlinear elliptic boundary value problems in an unbounded domain. (Chinese. English and Chinese summaries) **94d:35010**
Yeh, Cheh Chih *see* **Wong, Fu Hsiang; et al., 94m:35022**
Yotsutani, Shoji *see* **Kawano, Nichiro; et al., 94k:35020**
Yu, Jian She (*with* Song, Shou Gen) Oscillatory behavior of reduced wave equations. (Chinese. English and Chinese summaries) **94g:35015**
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35C15 Integral representations of solutions of PDE

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35Dxx Generalized solutions of partial differential equations

35D05 Existence of generalized solutions

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Kamont, Zdzisław Iterative methods for hyperbolic differential-functional problems. (English summary) **94j:35182**
Karp, A. P. Conditions for the solvability of the problem of reconstructing a nonclosed two-dimensional surface in a space from its Grassmann image. (Russian) **94b:53012**
Kazemi-Dehkordi, M. A. L_p-solution for a class of partial differential equations. (English summary) **94a:49018**
Kiguradze, T. I. On a boundary value problem for quasilinear hyperbolic systems. (Russian) **94h:35162**
Maslov, V. P. (*with* Samborskiĭ, S. N.) Stationary Hamilton-Jacobi and Bellman equations (existence and uniqueness of solutions). **94d:49048**
— (*with* Samborskiĭ, S. N.) Existence and uniqueness of solutions of stationary Hamilton-Jacobi and Bellman equations. A new approach. (Russian) **94d:49049**
Naumkin, P. I. (*with* Shishmarëv, I. A.) The asymptotic behavior as $t \to \infty$ of the solution of a nonlinear equation with weak dissipation and dispersion. (Russian. Russian summary) **94m:35032**
Popivanov, P. R. Wave fronts of solutions of some classes of nonlinear partial differential equations. **94f:35006**
Samborskiĭ, S. N. *see* **Maslov, V. P., 94d:49048** *and* **94d:49049**
Shishmarëv, I. A. *see* **Naumkin, P. I., 94m:35032**
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Skóra, Lidia Systems of differential-functional inequalities of first order in arbitrary domains. **94a:35119**
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Ueno, Kazushige On the geometrical classification of pseudoelliptic systems of first order differential equations in two variables—geometrical classification of pseudoelliptic systems. **94f:58138**

35F25 Initial value problems for nonlinear first-order PDE, nonlinear evolution equations

Gilbert, Robert P. (*with* Wen, Guo Chun) Integral and boundary value problems for nonlinear systems of composite type. (English summary) **94k:35068**
Kovács, A. Das Lösen eines Dirichlet Problems modifiziert in einem mehrfach konex Bereich mit Hilfe der Potentialtheorie. (Romanian summary) [The solution of a Dirichlet problem modified in a multiply connected domain, with the aid of potential theory] (*see* **94j:00024**)
Poorkarimi, H. Euler's method for a first order partial differential equation. **94j:35035**
Rykov, Yu. G. On the perturbation propagation in the initial-boundary value problem for quasilinear first order equations. (English summary) **94g:35049**
Shagalova, L. G. *see* **Subbotin, A. I., 94c:35054**
Subbotin, A. I. (*with* Shagalova, L. G.) Piecewise-linear solution of the Cauchy problem for the Hamilton-Jacobi equation. (Russian) **94c:35054**
Wen, Guo Chun *see* **Gilbert, Robert P., 94k:35068**

Items with secondary classifications in 35F25

Adiatullina, R. A. (*with* Subbotin, A. I.) Generalized solutions of an equation of the form $\partial\varphi/\partial t + H(t, x, \varphi, \nabla_x\varphi) = 0$. (Russian. Russian summary) **94a:35026**

D'Ancona, Piero (*with* Spagnolo, Sergio) A class of nonlinear hyperbolic problems with global solutions. **94m:35202**

Kalinowski, Marek Wojciech ★ Riemann waves and their applications. (English summary) **94d:35001**

Konyukhova, N. B. On the limit behavior of a bounded solution of a system of first-order evolution quasilinear partial differential equations under an unbounded time increase. (Russian. Russian summary) **94b:35049**

Kubota, Kôji (*with* Mochizuki, Kiyoshi) On small data scattering for 2-dimensional semilinear wave equations. **94d:35124**

Meziani, Abdelhamid Topological invariance of the solvability of complex-valued vector fields in the plane. **94g:35048**

Mochizuki, Kiyoshi *see* **Kubota, Kôji, 94d:35124**

Nguyen Duy Thai Son *see* **Trần Đứ'c Vân, 94m:35004**

Spagnolo, Sergio *see* **D'Ancona, Piero, 94m:35202**

Subbotin, A. I. *see* **Adiatullina, R. A., 94a:35026**

Trần Đứ'c Vân (*with* Nguyen Duy Thai Son) On the uniqueness of global classical solutions of the Cauchy problems for nonlinear partial differential equations of first order. (English summary) **94m:35004**

35F30 Boundary value problems for nonlinear first-order PDE

Soravia, Pierpaolo Discontinuous viscosity solutions to Dirichlet problems for Hamilton-Jacobi equations with convex Hamiltonians. (English summary) **94h:35040**

Items with secondary classifications in 35F30

Bardi, Martino (*with* Staicu, Vasile) The Bellman equation for time-optimal control of noncontrollable, nonlinear systems. (English summary) **94h:49052**

Frankowska, Halina Lower semicontinuous solutions of Hamilton-Jacobi-Bellman equations. (English summary) **94c:49037**

Rykov, Yu. G. On the perturbation propagation in the initial-boundary value problem for quasilinear first order equations. (English summary) **94g:35049**

Staicu, Vasile *see* **Bardi, Martino, 94h:49052**

Subbotin, A. I. Discontinuous solutions of a Dirichlet-type boundary value problem for the first-order partial differential equation. (English summary) **94d:49050**

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Items with secondary classifications in 35F99

Lykova, O. B. Bounded solutions of one class of partial differential equations. (Russian and Ukrainian summaries) **94m:35015**

Migórski, Stanisław (*with* Mortola, S.; Traple, J.) Homogenization of first order differential operators. (English and Italian summaries) **94f:34111**

Mortola, S. *see* **Migórski, Stanisław; et al., 94f:34111**

Subbotin, A. I. ★ Минимаксные неравенства и уравнения Гамильтона-Якоби. (Russian. English and Russian summaries) [Minimax inequalities and Hamilton-Jacobi equations] **94j:49003**

Traple, J. *see* **Migórski, Stanisław; et al., 94f:34111**

Zadorozhnii, V. G. On a first-order linear differential equation with ordinary and variational derivatives. (Russian. Russian summary) **94f:34119**

35Gxx General higher-order equations and systems

35G05 General theory of linear higher-order PDE

Boimatov, K. Kh. The equivalence of null boundary conditions in the Dirichlet problem to an integral condition. (Russian) **94i:35049**

Dzhuraev, A. D. Degenerate systems of first-order partial differential systems. (Russian) **94b:35073**

Ling, Ling Systems of partial differential equations in several complex variables. (Chinese. English and Chinese summaries) **94k:35069**

— Extendability and mean value properties of solutions to a system of partial differential equations in the theory of functions of several complex variables. (Chinese. English and Chinese summaries) **94i:35050**

Tasmambetov, Zh. N. On the construction of a solution to a system of partial differential equations with a regular singularity. (Russian. Russian summary) **94m:35058**

Items with secondary classifications in 35G05

Berglez, Peter Differential operators for systems of linear partial differential equations. (English summary) **94c:35046**

Kawai, Takahiro (*with* Takei, Yoshitsugu) The complex-analytic geometry of bicharacteristics and the semi-global existence of holomorphic solutions of linear differential equations—a bridge between the theory of partial differential equations and the theory of holomorphic functions. **94i:35008**

Miyake, Masatake An operator $L = aI - D_t^j D_x^{-j-\alpha} - D_t^{-j} D_x^{j+\alpha}$ and its nature in Gevrey functions. **94h:35187**

Pletner, Yu. D. New classes of generalized analytic functions. (Russian) **94m:30090**

Takei, Yoshitsugu *see* **Kawai, Takahiro, 94i:35008**

35G10 Initial value problems for linear higher-order PDE, linear evolution equations

Gindikin, S. G. ★ Tube domains and the Cauchy problem. (English summary) **94d:35028**

Isakov, Victor Carleman type estimates in an anisotropic case and applications. **94k:35070**

Karepov, O. V. (*with* Tarkhanov, N. N.) The method of Fischer-Riesz equations in the ill-posed Cauchy problem for systems with an injective symbol. (Russian) **94k:35071**

Liu, Shi Jun Well-posedness and solution formulas of Cauchy problems for systems of Nth order linear convolution equations. (Chinese. Chinese summary) **94m:35059**

Reissig, Michael Existence and uniqueness of global solutions of regular characteristic Cauchy problems. **94j:35036**

(Shlosman, S. B.) *see* **Gindikin, S. G., 94d:35028**

Tarkhanov, N. N. *see* **Karepov, O. V., 94k:35071**

Items with secondary classifications in 35G10

Cardin, Franco Geometrical Cauchy problem for H-J equations and wave propagation. **94g:58227**

Johnsson, Gunnar The Cauchy problem in $\mathbf{C}^N$ for linear second order partial differential equations with data on a quadric surface. (English summary) **94m:35008**

Kitagawa, Keiichiro Principe de Duhamel et problèmes de Cauchy uniformément bien posés. [Duhamel principle and uniformly well-posed Cauchy problems] **94m:35302**

Kosheleva, T. M. On a method for solving the Cauchy problem for partial differential equations in a half-plane in a class of functions of polynomial growth. (Russian) **94c:35008**

Krutitskii, P. A. Explicit solution of the Dirichlet problem for an equation of composite type in a multiply connected domain. (Russian) **94d:35117**

Nurubloev, M. Characteristic problem for a second-order nonclassical multidimensional system. (Russian) **94i:35005**

35G15 Boundary value problems for linear higher-order PDE

Boimatov, K. Kh. The generalized Dirichlet problem for systems of second-order differential equations. (Russian) **94a:35028**

Chesnokov, I. Yu. Removable singularities in the boundary conditions of solutions of linear differential equations in Sobolev spaces. (Russian. Russian summary) **94a:35029**

Sartabanov, Zh. Boundary value problems for second-order linear D-equations. (Russian. English, Russian and Kazakh summaries) **94m:35060**

Turmetov, B. Kh. (*with* Umarov, S. R.) On a boundary value problem for an equation with a fractional derivative. (Russian) **94m:35061**

Umarov, S. R. *see* **Turmetov, B. Kh., 94m:35061**

Items with secondary classifications in 35G15

Artino, Ralph A. Completely semielliptic boundary value problems. **94j:35034**

Boimatov, K. Kh. A system of equations of composite type defined in a multidimensional domain. (Russian) **94d:35116**

Bugir, M. K. Boundary value problems for partial differential equations on manifolds of constant curvature. (Russian. Russian summary) **94c:58208**

Fokin, M. V. The existence of the singular spectrum and the asymptotic behavior of solutions in a problem of S. L. Sobolev. (Russian) **94m:35223**

Jiang, Song On global smooth solutions to the one-dimensional equations of nonlinear inhomogeneous thermoelasticity. **94e:35134**

Krutitskii, P. A. Explicit solution of the Dirichlet problem for an equation of composite type in a multiply connected domain. (Russian) **94d:35117**

Kufner, Alois Higher order Hardy inequalities. **94h:26018**

Mikushin, N. V. On an analogue, discrete with respect to the time variable, of a general boundary value problem for partial differential equations in a half-space. (Russian. Russian summary) **94h:35255**

Popiołek, J. On the Cauchy-Dirichlet problem for an equation of third order. **94m:35066**

Rasulov, K. M. A general approach to the solution of classical boundary value problems for polyanalytic functions and their generalizations. (Russian. Russian summary) **94g:30044**

Shlapunov, A. A. *see* **Tarkhanov, N. N., 94c:35010**

Soldatov, A. P. The method of function theory in elliptic problems on the plane. II. The piecewise-smooth case. (Russian. Russian summary) **94a:35037**

Tarkhanov, N. N. (*with* Shlapunov, A. A.) Bases with double orthogonality in the Cauchy problem for systems with an injective symbol. (Russian) **94c:35010**

Zikirov, O. S. Boundary value problems for an equation of composite type. (Russian) **94g:35155**

35G20 General theory of nonlinear higher-order PDE

Caccese, Ermenegildo (*with* Monte, Anna Maria) On similarity solutions of a third order quasilinear equation. (English summary) **94g:35050**

Citti, Giovanna A comparison theorem for the Levi equation. (English and Italian summaries) **94m:35062**

Han, Yong Qian (*with* Sun, He Sheng) The periodic boundary problem and the initial value problem for a nonlinear system of equations of changing type. (English summary) **94m:35063**

Kalashnikov, A. S. Nonlinear phenomena in nonstationary processes described by asymptotically linear equations. (Russian. Russian summary) **94g:35051**

Koike, Shigeaki Viscosity solutions for monotone systems under Dirichlet condition. **94d:35029**

Monte, Anna Maria *see* **Caccese, Ermenegildo, 94g:35050**

Nabaji, Abdellah Construction de solutions singulières pour des opérateurs quasi linéaires. (English and French summaries) [Construction of singular solutions for quasilinear operators] **94k:35072**

Rzaev, K. U. Differential properties of solutions of second-order nonlinear partial differential equations in divergence form. (Russian) **94j:35037**

Sun, He Sheng *see* **Han, Yong Qian, 94m:35063**

Items with secondary classifications in 35G20

Bulinskii, A. V. Some problems of asymptotical analysis of nonlinear diffusion. **94g:35029**

Gérard, Raymond (*with* Tahara, Hidetoshi) Solutions holomorphes et singulières d'équations aux dérivées partielles singulières non linéaires. [Holomorphic and singular solutions of nonlinear singular partial differential equations] **94h:35005**

Jaffard, Stéphane Wavelets and nonlinear analysis. (English summary) **94j:42051**

Kozhanov, A. I. On the stabilization as $t \to \infty$ of the solutions of a class of third-order nonlinear equations. (Russian) **94g:35026**

Tahara, Hidetoshi *see* **Gérard, Raymond, 94h:35005**
Vlieg-Hulstman, M. The Painlevé analysis and exact travelling wave solutions to nonlinear partial differential equations. (English summary) **94k:35010**

35G25 Initial value problems for nonlinear higher-order PDE, nonlinear evolution equations

Kenig, Carlos E. (*with* Ponce, Gustavo; Vega, Luis) Higher-order nonlinear dispersive equations. (English summary) **94k:35073**
Ponce, Gustavo *see* **Kenig, Carlos E.; et al., 94k:35073**
Vega, Luis *see* **Kenig, Carlos E.; et al., 94k:35073**

Items with secondary classifications in 35G25

Calogero, F. Universal integrable nonlinear PDEs. (English summary) **94k:35305**
Métivier, G. Counterexamples to Hölmgren's uniqueness for analytic nonlinear Cauchy problems. (English summary) **94b:35010**

35G30 Boundary value problems for nonlinear higher-order PDE

Abdinazarov, S. A boundary value problem for a nonlinear equation. (Russian. English and Uzbek summaries) **94m:35064**
Moiseev, E. I. Regular solvability of a nonclassical boundary value problem. (Russian. Russian summary) **94m:35065**
Popiołek, J. On the Cauchy-Dirichlet problem for an equation of third order. **94m:35066**
Shishkov, A. E. Estimates for the rate of propagation of perturbations in quasilinear degenerate higher-order parabolic equations in divergence form. (Russian. Russian and Ukrainian summaries) **94b:35074**
Soltanov, K. N. Solvability of nonlinear equations with operators in the form of the sum of a pseudomonotone and a weakly compact operator. (Russian) **94g:35052**
— On nonlinear equations of the form $F(x, u, Du, \Delta u) = 0$. (Russian. Russian summary) **94k:35074**

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Braides, Andrea (*with* Chiadò Piat, Valeria; Defranceschi, Anneliese) Homogenization of almost periodic monotone operators. (English and French summaries) **94d:35014**
Chiadò Piat, Valeria *see* **Braides, Andrea; et al., 94d:35014**
Defranceschi, Anneliese *see* **Braides, Andrea; et al., 94d:35014**
Garroni, Maria Giovanna (*with* Solonnikov, V. A.; Vivaldi, Maria Agostina) Problèmes intégro-différentiels complètement non linéaires. (English and French summaries) [Fully nonlinear integro-differential problems] **94b:45003**
Kozhanov, A. I. On the stabilization as $t \to \infty$ of the solutions of a class of third-order nonlinear equations. (Russian) **94g:35026**
Sadyrkhanov, R. S. ★ Избранные вопросы нелинейного функционального анализа. (Russian. Russian summary) [Selected problems in nonlinear functional analysis] **94g:47081**
Solonnikov, V. A. *see* **Garroni, Maria Giovanna; et al., 94b:45003**
Vivaldi, Maria Agostina *see* **Garroni, Maria Giovanna; et al., 94b:45003**

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Madguerova, Andreana Stefanova ★ On the local isomorphisms of some homogeneous functional algebras. (English summary) **94h:46083**

35H05 Hypoelliptic equations and systems [see also 58Gxx]

Bergamasco, Adalberto P. (*with* Cordaro, Paulo D.; Malagutti, Pedro A.) Globally hypoelliptic systems of vector fields. (English summary) **94e:35048**
Burenkov, V. I. Conditional hypoellipticity and Fourier multipliers for weighted L_p-spaces with an exponential weight. **94m:35067**
Cancelier, Claudy (*with* Chemin, Jean-Yves; Xu, Chao Jiang) Calcul de Weyl et opérateurs sous-elliptiques. [Weyl calculus and subelliptic operators] **94g:35053**
Capogna, Luca (*with* Danielli, Donatella; Garofalo, Nicola) Embedding theorems and the Harnack inequality for solutions of nonlinear subelliptic equations. (English and French summaries) **94b:35075**
— (*with* Danielli, Donatella; Garofalo, Nicola) An embedding theorem and the Harnack inequality for nonlinear subelliptic equations. **94j:35038**
Chemin, Jean-Yves *see* **Cancelier, Claudy; et al., 94g:35053**
Christ, Michael Analytic hypoellipticity, representations of nilpotent groups, and a nonlinear eigenvalue problem. **94k:35075**
— A family of degenerate differential operators. **94k:35076**
— A necessary condition for analytic hypoellipticity. **94m:35068**
Citti, Giovanna (*with* Garofalo, Nicola; Lanconelli, Ermanno) Harnack's inequality for sum of squares of vector fields plus a potential. **94m:35069**
Cordaro, Paulo D. *see* **Bergamasco, Adalberto P.; et al., 94e:35048**
Danielli, Donatella *see* **Capogna, Luca; et al., 94b:35075** *and* **94j:35038**
Demidenko, G. V. Integral operators defined by boundary value problems for quasi-elliptic equations. (Russian) **94b:35076**
Feng, Xue Shang A note on Trèves's indecomposable operator. (Chinese. Chinese summary) **94d:35030**
Ganzha, E. I. A boundary value problem for a class of hypoelliptic operators with a sign-variable characteristic form. (Russian) **94k:35077**
Garofalo, Nicola *see* **Capogna, Luca; et al., 94b:35075**; **94j:35038** *and* **Citti, Giovanna; et al., 94m:35069**
Gimadislamov, M. G. On the discreteness of the spectrum of the equation $Au = \lambda Bu$, where A and B are hypoelliptic operators. (Russian) **94i:35051**
Hoshiro, Toshihiko Some examples of hypoelliptic operators of infinitely degenerate type. **94k:35078**
Lanconelli, Ermanno *see* **Citti, Giovanna; et al., 94m:35069**
Luo, Xue Bo Necessary and sufficient conditions for hypoellipticity for a class of convolution operators. (English summary) **94m:35070**
Maire, H.-M. Hypoelliptic systems of complex vector fields. **94d:35031**
Malagutti, Pedro A. *see* **Bergamasco, Adalberto P.; et al., 94e:35048**
Rodino, Luigi On the problem of the hypoellipticity of the linear partial differential equations. **94g:35054**
Suzuki, Michiharu Hypoellipticity for a class of degenerate elliptic operators of second order. **94e:35049**
Taira, Kazuaki On a class of hypoelliptic differential operators with double characteristics. **94e:35050**
Tulovsky, V. On hypoellipticity and solvability of linear partial differential operators with multiple characteristics. (English summary) **94f:35034**
Xu, Chao Jiang *see* **Cancelier, Claudy; et al., 94g:35053**

Items with secondary classifications in 35H05

Artino, Ralph A. Completely semielliptic boundary value problems. **94j:35034**
Bell, Denis R. (*with* Mohammed, Salah Eldin A.) Hypoelliptic parabolic operators with exponential degeneracies. (English and French summaries) **94g:60120**
Bogachev, V. I. (*with* Röckner, Michael) Hypoellipticity and invariant measures of infinite-dimensional diffusions. (English and French summaries) **94m:60130**
Boggiatto, Paolo Sobolev spaces associated with a polyhedron and multiquasielliptic pseudodifferential operators in $\mathbf{R}^n$. (Italian. English summary) **94m:46054**
Chen, Hua[1] Some problems on totally characteristic operators. (Chinese. English and Chinese summaries) **94i:35113**
Christ, Michael Remarks on the breakdown of analyticity for $\overline{\partial}_b$ and Szegő kernels. **94k:32028**
Derridj, Makhlouf (*with* Tartakoff, David S.) Analyticité microlocale pour $\Box_b$ dans des domaines pseudoconvexes découplés. (French summary) [Microlocal analyticity for $\Box_b$ in decoupled pseudoconvex domains] **94k:32022**
Dziubański, Jacek On semigroups generated by subelliptic operators on homogeneous groups. **94d:43007**
Ge, Zhong Collapsing Riemannian metrics to Carnot-Carathéodory metrics and Laplacians to sub-Laplacians. (English summary) **94f:58128**
Kovačević, Dušanka On the hypoellipticity of convolution equations in the ultradistribution spaces of L^q growth. (English summary) **94f:46050**
Lévy-Bruhl, Pierre *see* **Mohamed, Abdérémane; et al., 94k:22014**
Lopatnikov, A. M. Asymptotic expansion of the heat kernel for a class of hypoelliptic operators. **94f:58123**
Mohamed, Abdérémane (*with* Lévy-Bruhl, Pierre; Nourrigat, J.) Étude spectrale d'opérateurs liés à des représentations de groupes nilpotents. (French summary) [Spectral study of operators associated with representations of nilpotent groups] **94k:22014**
Mohammed, Salah Eldin A. *see* **Bell, Denis R., 94g:60120**
Nourrigat, J. *see* **Mohamed, Abdérémane; et al., 94k:22014**
Petkov, Vesselin (*with* Vodev, Georgi) Upper bounds on the number of scattering poles and the Lax-Phillips conjecture. (English summary) **94k:35233**
Röckner, Michael *see* **Bogachev, V. I., 94m:60130**
Suzuki, Michiharu *see* **Wakabayashi, Seiichiro, 94j:35206**
Tartakoff, David S. *see* **Derridj, Makhlouf, 94k:32022**
Trèves, François ★ Hypo-analytic structures. (English summary) **94e:35014**
Varopoulos, Nicholas Th. Semigroup commutators under differences. II. **94c:47074**
Vodev, Georgi *see* **Petkov, Vesselin, 94k:35233**
Wakabayashi, Seiichiro (*with* Suzuki, Michiharu) Microhypoellipticity for a class of pseudodifferential operators with double characteristics. **94j:35206**

35Jxx Partial differential equations of elliptic type [see also 58G05, 58G10]

Items with secondary classifications in 35Jxx

Begehr, Heinrich (*with* Gilbert, Robert P.) ★ Transformations, transmutations, and kernel functions. Vol. 1. (English summary) **94g:35002**
(Gavosto, Estela A.) *see* **Krantz, Steven G., 94a:35002**
Gilbert, Robert P. *see* **Begehr, Heinrich, 94g:35002**
Krantz, Steven G. ★ Partial differential equations and complex analysis. **94a:35002**
(Peloso, Marco M.) *see* **Krantz, Steven G., 94a:35002**

35J05 Laplace equation, reduced wave equation (Helmholtz), Poisson equation [see also 31Axx, 31Bxx]

Andriadze, T. I. (*with* Criado, F.) About mathematical model [of] some diffuse processes in the Mediterranean and exterior Poincaré problem for the Helmholtz equation. **94h:35041**
Andronov, I. V. Application of zero-range models to the problem of diffraction by a small hole in elastic plate. (English summary) **94b:35077**
Apel'tsin, V. F. Letter to the editors: "Analytic continuations of solutions of boundary value problems for the stationary wave equation" [Differentsial'nye Uravneniya **27** (1991), no. 1, 8–17, 179; MR 92k:35042]. (Russian) **94c:35055**
Argatov, I. I. (*with* Nazarov, S. A.) Junction problem of shashlik (skewer) type. (English and French summaries) **94e:35051**
Colton, David (*with* Monk, Peter) On a class of integral equations of the first kind in inverse scattering theory. (English summary) **94d:35032**
Criado, F. *see* **Andriadze, T. I., 94h:35041**
Đặng Đình Áng (*with* Thanh, D. N.; Thanh, V. V.) Regularized solutions of a Cauchy problem for the Laplace equation in an irregular strip. (English summary) **94m:35071**
Deuring, Paul (*with* Varnhorn, Werner) On strong solutions of Poisson's equation in Beppo Levi spaces. (English and German summaries) **94b:35078**

Dinh Nho Hào (*with* Trần Đú'c Vân; Gorenflo, Rudolf) Towards the Cauchy problem for the Laplace equation. **94e:35052**

Dubrovskiĭ, V. V. Letter to the editors: "A formula for the first regularized trace of a power of the Laplace operator on a triangle" [Differentsial'nye Uravneniya **28** (1992), no. 7, 1274–1276, 1288] by Dubrovskiĭ and E. Yu. Kunakova. (Russian)

Figari, R. (*with* Teta, A.) A boundary value problem of mixed type on perforated domains. (English summary) **94f:35035**

Gadyl'shin, R. R. On merging poles of an acoustic resonator. (Russian) **94b:35079**

Garofalo, Nicola (*with* Segàla, Fausto) Asymptotic expansions for a class of Fourier integrals and applications to the Pompeiu problem. **94i:35052**

Gorenflo, Rudolf *see* **Dinh Nho Hào; et al., 94e:35052**

Heinrich, Bernd Singularity functions at axisymmetric edges and their representation by Fourier series. (English summary) **94i:35053**

Henshaw, William D. *see* **Ward, Michael J.; et al., 94h:35045**

Jäger, Willi (*with* Oleĭnik, O. A.; Shamaev, A. S.) On the averaging problem for the Laplace equation in a partially perforated domain. (Russian) **94m:35072**

Katrakhov, V. V. A boundary value problem for the Poisson equation with singularities of arbitrary order at boundary points. (Russian) **94g:35055**

Keller, Joseph B. *see* **Ward, Michael J., 94h:35044** *and* **94h:35045**

Kirsch, Andreas Remarks on some notions of weak solutions for the Helmholtz equation. (English summary) **94b:35080**

Kosmodem'yanskiĭ, A. A., Jr. Calculation of the normal derivative of the solution of the Dirichlet problem for the Poisson equation. (Russian) **94c:35056**

(Kunakova, E. Yu.) *see* **Dubrovskiĭ, V. V.**

Lacroix, Marie-Thérèse Comparaison des solutions de problèmes associés à un opérateur elliptique dans des domaines de $\mathbf{R}^2$ et $\mathbf{R}^3$ présentant une singularité, et lorsqu'on supprime la singularité. (English summary) [Comparison of the solutions of problems associated with an elliptic operator in domains in $\mathbf{R}^2$ and $\mathbf{R}^3$ with a singularity and with the singularity eliminated] **94g:35056**

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35J15 General theory of second-order, elliptic equations

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Davydov, A. B. On the study of a second-order elliptic differential operator on a manifold without boundary with turning points. (Russian) **94f:35098**
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Iftimie, V. Opérateurs elliptiques du second ordre essentiellement auto-adjoints. [Second-order essentially selfadjoint elliptic operators] **94a:47082**
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— (*with* Vy, L. K.) Coefficient identification for an inhomogeneous Helmholtz equation by asymptotic regularization. (English summary) **94e:35140**

Demengel, Françoise Some remarks on variational problems on $BV(\Omega, S^1)$ and $W^{1,1}(\Omega, S^1)$. **94g:49005**

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Rother, Wolfgang[1] A nonlinear Dirichlet problem on the unit ball. (English summary) **94k:35111**

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Canuto, Claudio (*with* Russo, Alessandro) Self-adaptive coupling of mathematical models and/or numerical methods. **94m:35085**

Capuzzo-Dolcetta, Italo (*with* Tchou, Nicoletta A.) Stability of solutions of Neumann problems with singular potential. (English and Italian summaries) **94d:35037**

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Pavlenko, V. N. Elliptic variational inequalities with discontinuous semimonotone operators. (Russian) **94g:47086**
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Chen, Xinfu (*with* Friedman, Avner; Jiang, Li Shang) Mathematical modeling of semiconductor lasers. (English summary) **94b:78018**
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Molotkov, I. A. *see* **Vakulenko, S. A., (94g:00020)**
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35Kxx Parabolic equations and systems [see also 35Bxx, 35Dxx, 35R30, 35R35, 58G11]

35K05 Heat equation

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Day, W. A. Entropy and elliptic equations. **94a:35055**
Hsiao, George C. (*with* Saranen, Jukka) Boundary integral solution of the two-dimensional heat equation. (English summary) **94a:35056**
Kochneff, Elizabeth An analytic family of solutions of the heat equation. (English summary) **94h:35079**
Mironyuk, P. I. (*with* Chopik, V. I.) Conditional Galilei-invariance of the multidimensional nonlinear heat equation. (English summary) (*see* **94c:35004**)
Mizohata, Sigeru On some singular boundary value problem for heat operator. **94d:35064**
Saitoh, Saburou Inequalities for the solutions of the heat equation. (English summary) **94b:35127**
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Sili, A. Heat propagation in a thin rod. (English and Italian summaries) **94k:35119**
Watson, Neil A. Nevanlinna's first fundamental theorem for supertemperatures. **94k:35120**

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Andrews, Kevin T. (*with* Shi, Peter; Shillor, Meir; Wright, Stephen James) Thermoelastic contact with Barber's heat exchange condition. (English summary) **94e:73051**
Anger, Gottfried A measure-theoretic approach for studying inverse problems of the heat equation and the wave equation. (English summary) **94b:35293**
Arendt, Wolfgang (*with* Batty, Charles J. K.) Exponential stability of a diffusion equation with absorption. **94k:35038**
Arrieta de Uzcátegui, Xiomara (*with* Kalla, Shyam L.) Some results on the fractional diffusion equation. (Spanish. English and Spanish summaries) **94j:44002**
Auscher, Pascal (*with* McIntosh, Alan; Tchamitchian, Philippe) Noyau de la chaleur d'opérateurs elliptiques complexes. (English summary) [Heat kernel of complex elliptic operators] **94k:35081**
Bass, Richard F. (*with* Burdzy, Krzysztof) On domain monotonicity of the Neumann heat kernel. (English summary) **94k:60120**
Batty, Charles J. K. *see* **Arendt, Wolfgang, 94k:35038**
Borell, Christer Geometric properties of some familiar diffusions in $\mathbf{R}^n$. (English summary) **94c:60127**
Brzezina, Miroslav Capacitary interpretation of the Fulks measure. (English summary) **94k:31010**
— Tusk type conditions and thinness for the parabolic operator of order α. **94e:31002**
Burdzy, Krzysztof *see* **Bass, Richard F., 94k:60120**
Cao, Huai Dong (*with* Yau, Shing-Tung) Gradient estimates, Harnack inequalities and estimates for heat kernels of the sum of squares of vector fields. **94h:58155**
Chen, Zhen Qing (*with* Williams, Ruth J.; Zhao, Zhong Xin) A Sobolev inequality and Neumann heat kernel estimate for unbounded domains. (English summary) **94m:46056**
Chung, Soon-Yeong (*with* Kim, Dohan) Representation of quasianalytic ultradistributions. (English summary) **94e:46069**
— *see also* **Kim, Kwang Whoi; et al., 94m:46076**
Clément, Philippe P. (*with* Grisvard, Pierre) Sommes d'opérateurs et régularité L^p dans les problèmes aux limites. (English summary) [Sums of operators and L^p regularity in boundary value problems] **94a:35021**
Colli, Pierluigi (*with* Grasselli, Maurizio) Phase transitions in materials with memory. **94e:73007**
D'Acunto, Berardino Hyperbolic-parabolic singular perturbations. (English and Italian summaries) **94k:35024**
Dong, Chen (*with* Matsuzawa, Tadato) S-spaces of Gel'fand-Shilov and differential equations. **94m:46067**
Fabre, Caroline (*with* Puel, Jean-Pierre; Zuazua, Enrike) Contrôlabilité approchée de l'équation de la chaleur linéaire avec des contrôles de norme L^∞ minimal. (English and French summaries) [Approximate controllability for the linear heat equation with controls of minimal L^∞ norm] **94b:93018**
Golik, Wojciech Continuous dependence of solutions of some inverse problems in heat conduction. (English summary) **94b:35296**
Grasselli, Maurizio *see* **Colli, Pierluigi, 94e:73007**
Grisvard, Pierre *see* **Clément, Philippe P., 94a:35021**
Hamilton, Richard S. A matrix Harnack estimate for the heat equation. **94g:58215**
— Monotonicity formulas for parabolic flows on manifolds. **94g:58216**

Hoffmann, Karl-Heinz[1] (*with* Kenmochi, Nobuyuki; Niezgódka, Marek) Large-time solutions of the two-phase Stefan problem with delay. (English summary) **94b:35308**
Hu, Bei (*with* Yin, Hong Ming) Determination of the leading coefficient $a(x)$ in the heat equation $u_t = a(x)\Delta u$. (English summary) **94g:35219**
Ishikawa, Manabu Admissible and regular potentials for positive C_0-semigroups and application to heat semigroups. **94l:47065**
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Kim, Kwang Whoi (*with* Chung, Soon-Yeong; Kim, Dohan) Fourier hyperfunctions as the boundary values of smooth solutions of heat equations. (English summary) **94m:46076**
Lin, Chang Hao (*with* Payne, L. E.) On the spatial decay of ill-posed parabolic problems. (English summary) **94c:35167**
Magenes, E. On a Stefan problem on the boundary of a domain. **94b:35311**
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Mueller, Carl (*with* Sowers, Richard) Blowup for the heat equation with a noise term. (English summary) **94m:60128**
Nicolescu, Miron ★ Opera matematică. (Romanian) [Mathematical works] **94m:35001**
Niezgódka, Marek *see* **Hoffmann, Karl-Heinz[1]; et al., 94b:35308**
Ôeda, Kazuo On the Hausdorff dimension of the attractor for the heat convection equation. **94k:58137**
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Popovich, R. O. On solutions of the Navier-Stokes equations expressed via solutions of the heat equation. (English summary) (*see* **94c:35004**)
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Ramm, Alexander G. An inverse problem for the heat equation. (English summary) **94m:35313**
Shi, Peter *see* **Andrews, Kevin T.; et al., 94e:73051**
Shillor, Meir *see* **Andrews, Kevin T.; et al., 94e:73051**
Shpadi, Yu. R. An inverse problem for the heat equation in a domain with a moving boundary. (Russian. English, Russian and Kazakh summaries) **94i:35199**
Smirnov, L. I. Some solutions of the Cauchy problem for a linear diffusion equation. (Russian. English, Russian and Ukrainian summaries) **94j:35065**
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Tchamitchian, Philippe *see* **Auscher, Pascal; et al., 94k:35081**
Vogel, C. R. Wave splitting for some nonhyperbolic time-dependent PDEs. (English summary) **94b:35016**
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Wright, Stephen James *see* **Andrews, Kevin T.; et al., 94e:73051**
Xu, Chuan-yi Heat kernels and geometric invariants. I. (English and French summaries) **94b:58093**
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Yin, Hong Ming The Lipschitz continuity of the interface in the heat equation with strong absorption. **94b:35140**
— *see also* **Hu, Bei, 94g:35219**
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35K10 General theory of second-order, parabolic equations

Carmona, René A. (*with* Molchanov, S. A.) Parabolic Anderson problem and intermittency. (English summary) **94h:35080**
Eskin, Gregory Parabolic equations in domains with corners and wedges. **94m:35128**
Fabricant, A. (*with* Marinov, Marin L.; Rangelov, Ts.) Regularizing effect for nonlinear filtration equations. **94d:35065**
Freidlin, Mark I. (*with* Weinberger, Hans) On a backward-forward parabolic equation and its regularization. (English summary) **94g:35107**
Illner, Reinhard (*with* Tie, Jinghzi) On directed diffusion with measurable background. (English summary) **94j:35061**
Itô, Seizô ★ Diffusion equations. (English summary) **94b:35128**
Krõger, Paweł Regularity properties of parabolic measures. (English summary) (*see* **94e:00020**)
Kushnir, R. M. (*with* Lopushans'ka, G. P.) On an approach to the construction of a solution to the generalized conjugation problem. (Ukrainian. Ukrainian summary) **94g:35108**
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Molchanov, S. A. *see* **Carmona, René A., 94h:35080**
Murata, Minoru Uniform restricted parabolic Harnack inequality, separation principle, and ultracontractivity for parabolic equations. **94i:35080**
Raitums, Uldis On the approximation of solutions of parabolic equations with discontinuous nonlinearities. (Russian. Russian summary) **94f:35057**
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Belov, M. A. Asymptotic solution of a mixed parabolic problem with discontinuous initial conditions. II. (Russian. English, Russian and Latvian summaries) (*see* **94b:00031**)
Belov, Yu. Ya. Inverse problems for parabolic equations. (English summary) **94k:35321**
Bobrik, R. V. Singular perturbation method for short waves in random media. (English summary) **94k:35022**
Daners, Daniel (*with* Koch Medina, Pablo) ★ Abstract evolution equations, periodic problems and applications. (English summary) **94b:34002**
— (*with* Koch Medina, Pablo) Superconvexity of the evolution operator and parabolic eigenvalue problems on $\mathbf{R}^n$. **94m:34147**
Gilardi, Gianni (*with* Kröner, Dietmar) The dam problem in unbounded domains. (English summary) **94k:76097**
Hoffmann, Karl-Heinz[1] (*with* Yamamoto, Masahiro) Generic uniqueness and stability in some inverse parabolic problem. **94k:35324**
Koch Medina, Pablo *see* **Daners, Daniel, 94b:34002** *and* **94m:34147**
Kostin, A. B. *see* **Prilepko, A. I.; et al., 94j:35192**
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Nishio, Masaharu The uniqueness of positive solutions of parabolic equations of divergence form on an unbounded domain. **94f:35058**
Prilepko, A. I. (*with* Kostin, A. B.; Tikhonov, I. V.) Inverse problems for evolution equations. (English summary) **94j:35192**
Sun, Qi Yu Pointwise convergence of solutions to the Schrödinger equation with a potential. (Chinese. Chinese summary) **94m:35078**
Tikhonov, I. V. *see* **Prilepko, A. I.; et al., 94j:35192**
Wang, Lihe A maximum principle for elliptic and parabolic equations with oblique derivative boundary problems. (English summary) **94b:35059**
Wang, Xiu Lan An inverse problem for a parabolic equation. (Chinese. English and Chinese summaries) **94b:35303**
Yajima, Kenji Schrödinger evolution equations with magnetic fields. **94k:35270**
Yamamoto, Masahiro *see* **Hoffmann, Karl-Heinz[1], 94k:35324**
Zhidkov, E. N. A proof of the uniqueness of the solution of an inverse problem. (Russian. Russian summary) **94k:35331**

35K15 Initial value problems for second-order, parabolic equations

Cannon, John R. (*with* Jones, B. Frank; Lin, Yan Ping; Wang, Shingmin) A parabolic trace type functional-differential equation. (English summary) **94j:35063**
Denisov, V. N. On the structure of the power asymptotics of the solution of the Cauchy problem for parabolic and hyperbolic equations. (Russian) **94i:35081**
Ding, Xia Qi (*with* Wu, Yong Hui) The Cauchy problem for a semilinear parabolic system of equations. (Chinese. Chinese summary) **94m:35129**
Dzhenaliev, M. T. On boundary problems for loaded equations. (English summary) (*see* **94e:00020**)
Freidlin, Mark I. (*with* Venttsel', A. D.) Random perturbations of Hamiltonian systems. (English summary) **94j:35064**
Ibragimov, È. Ch. Well-posedness of the Cauchy problem for a nonstationary equation of Schrödinger type. (Russian) **94g:35109**
Jones, B. Frank *see* **Cannon, John R.; et al., 94j:35063**
Kobayashi, Kusuo Remarks on the asymptotic properties for semilinear heat equations. **94m:35130**
Li, Xiao Ping[1] (*with* Wu, Ji Zhou) Exact solutions to initial-boundary value problems for a class of parabolic equations and their applications. (Chinese. English and Chinese summaries) **94h:35081**
Lianantonakis, Maria Ultracontractive heat kernel bounds for singular second order elliptic operators. **94b:35129**
Lin, Yan Ping *see* **Cannon, John R.; et al., 94j:35063**
Pfeil, T. On the time-monotonicity of the solutions of linear second order homogeneous parabolic equations. **94k:35121**
Smirnov, L. I. Some solutions of the Cauchy problem for a linear diffusion equation. (Russian. English, Russian and Ukrainian summaries) **94j:35065**
Venttsel', A. D. *see* **Freidlin, Mark I., 94j:35064**
Wang, Shingmin *see* **Cannon, John R.; et al., 94j:35063**
Wu, Ji Zhou *see* **Li, Xiao Ping[1], 94h:35081**
Wu, Yong Hui *see* **Ding, Xia Qi, 94m:35129**
Zhumabekov, L. A mixed initial-boundary value problem for a parabolic equation in an angular domain. (Russian. English, Russian and Kazakh summaries) **94h:35082**

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Abdullaev, U. G. Unbounded solutions of the Kolmogorov-Petrovskiĭ-Piskunov equation. (Russian. Russian summary) **94e:35016**
Anosov, V. P. Coercive solvability of abstract parabolic equations. (Russian) **94f:34114**
Byun, Du-Won Relationship between the analytic solutions of the heat equation. (English summary) **94g:35106**
Chen, Senhuei E. Weak solvability of a parabolic equation arising in physical oceanography. (English summary) **94i:35167**
Chen, Zhi Min Global solutions to fully nonlinear parabolic equations. (Chinese. Chinese summary) **94c:35098**
Gladkov, A. L. The Cauchy problem for some degenerate quasilinear parabolic equations with absorption. (Russian. English and Russian summaries) **94d:35086**
Kamynin, V. L. Asymptotic behavior of solutions of the Cauchy problem for quasilinear parabolic equations. (Russian. Russian summary) **94a:35018**
Maremonti, Paolo (*with* Russo, Remigio) On asymptotic time decay of solutions to a parabolic equation in unbounded domains. (English summary) **94f:35019**
Newton, Paul K. Rapidly forced initial value problems. (English summary) **94g:35043**
Rudnicki, Ryszard Strangely sweeping one-dimensional diffusion. (English summary) **94c:60131**
— Asymptotical stability in L^1 of parabolic equations. **94g:35027**
Russo, Remigio *see* **Maremonti, Paolo, 94f:35019**
Soner, Halil Mete (*with* Souganidis, P. E.) Singularities and uniqueness of cylindrically symmetric surfaces moving by mean curvature. **94c:53011**
Souganidis, P. E. *see* **Soner, Halil Mete, 94c:53011**
Strauss, Walter A. Smoothing of dispersive waves. **94g:35061**
Visintin, Augusto Hysteresis and semigroups. (English summary) **94f:47097**

35K20 Boundary value problems for second-order, parabolic equations

Barradas, Ignacio (*with* Pérez Esteva, Salvador) Solution to a parabolic equation with integral type boundary condition. (English summary) **94h:35083**

Belogurov, A. P. (*with* Dzhenaliev, M. T.) An application of loaded equations of parabolic type. (Russian. English, Russian and Kazakh summaries) **94m:35131**

Bizhanova, G. I. (*with* Solonnikov, V. A.) On the solvability of an initial-boundary value problem for a second-order parabolic equation with a time derivative in the boundary condition in a weighted Hölder space of functions. (Russian. Russian summary) **94d:35066**

Chan, Chiu Yeung Computation of the critical domain for quenching in an elliptic plate. (English summary) **94h:35084**

Dzhenaliev, M. T. *see* **Belogurov, A. P., 94m:35131**

Èidel'man, S. D. *see* **Zhitarashu, N. V., 94m:35134**

Filinovskiĭ, A. V. *see* **Muravei, L. A., 94m:35133**

Garroni, Maria Giovanna (*with* Menaldi, José-Luis) ★ Green functions for second order parabolic integro-differential problems. (English summary) **94g:35110**

Gianni, Roberto On a parabolic equation with nonlocal boundary condition. (English summary) **94h:35085**

Hornung, Ulrich (*with* Showalter, R. E.) PDE-models with hysteresis on the boundary. (English summary) **94h:35086**

Kurta, V. V. On the Tikhonov-Petrovskiĭ problem for second-order parabolic equations in noncylindrical domains. (Russian) **94g:35111**

Kutev, Nikolai D. Gradient blow-ups and global solvability after the blow-up time for nonlinear parabolic equations. **94m:35132**

Menaldi, José-Luis *see* **Garroni, Maria Giovanna, 94g:35110**

Muravei, L. A. (*with* Filinovskiĭ, A. V.) A nonlocal boundary value problem for a parabolic equation. (Russian. Russian summary) **94m:35133**

Nishio, Masaharu The uniqueness of positive solutions of parabolic equations of divergence form on an unbounded domain. **94f:35058**

Palagachev, D. K. A tangential oblique derivative problem for second order linear parabolic equations. II. **94k:35122**

Pérez Esteva, Salvador *see* **Barradas, Ignacio, 94h:35083**

Pielichowski, Wacław The indefinite eigenvalue problem of a periodic-parabolic operator with a third-type boundary. **94i:35082**

Prokhorenko, V. I. Asymptotic and pseudo-analytic solutions of a parabolic problem with multidimensional perturbation. (Russian) **94k:35123**

Sadallah, Boubaker-Khaled Relationship between two boundary problems: the first concerns a smooth domain and the second concerns a domain with corners. (Arabic. English summary) **94d:35067**

Shkhanukova, M. M. Nonlocal problems for parabolic equations of general form. (Russian. Russian summary) **94h:35087**

Showalter, R. E. *see* **Hornung, Ulrich, 94h:35086**

Solonnikov, V. A. *see* **Bizhanova, G. I., 94d:35066**

Uflyand, Ya. S. Some problems of mathematical physics associated with nonstationary processes of convective heat conduction. (English summary) **94k:35124**

Yakubov, Ya. S. On a problem of A. A. Samarskiĭ. (Russian) **94k:35125**

Yang, Shi Xin Existence and uniqueness of weak solutions for quasilinear parabolic systems. **94k:35126**

Zhitarashu, N. V. (*with* Èidel'man, S. D.) ★ Параболические граничные задачи. (Russian. Russian summary) [Parabolic boundary value problems] **94m:35134**

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Antonets, M. A. Initial-boundary value problems for evolution equations with a transmission condition on an unbounded surface. (Russian) **94k:35215**

Borodin, M. A. The existence of a classical solution in the multidimensional Stefan problem on a finite time interval. (Russian. Russian and Ukrainian summaries) **94b:35307**

Bramanti, Marco (*with* Cerutti, M. Cristina) $W_p^{1,2}$ solvability for the Cauchy-Dirichlet problem for parabolic equations with VMO coefficients. **94j:35180**

Bubnov, B. A. Solvability of an inverse problem for a parabolic equation. (Russian) **94j:35187**

Buonocore, Pasquale On the principal eigenvalue of a periodic-parabolic problem. (English summary) **94a:35084**

Cannarsa, Piermarco (*with* Gozzi, Fausto; Soner, Halil Mete) A dynamic programming approach to nonlinear boundary control problems of parabolic type. (English summary) **94g:49069**

Cerutti, M. Cristina *see* **Bramanti, Marco, 94j:35180**

Choulli, Mourad Un résultat d'existence pour un problème inverse. (English and French summaries) [An existence result for an inverse problem] **94h:35260**

Cui, Bao Tong Oscillation properties for parabolic equations of neutral type. (English summary) **94i:35188**

Decarreau, A. (*with* Rakotoson, J.-M.) Nonlinear elliptic-parabolic equations with L^1-data. (English summary) **94g:35154**

Denisov, V. N. Asymptotic behavior of the solutions of elliptic equations. (Russian) **94i:35058**

El Badia, Abdellatif Application d'un théorème d'unicité de type Mizohata à un problème inverse pour l'équation de la chaleur. (English and French summaries) [The uniqueness of an inverse problem for the heat equation based on a unique continuation theorem of Mizohata] **94h:35262**

Gopalsamy, K. (*with* He, Xue Zhong; Sun, Da Qing) Oscillations and convergence in a diffusive delay logistic equation. (English summary) **94j:35181**

Gozzi, Fausto *see* **Cannarsa, Piermarco; et al., 94g:49069**

He, Xue Zhong *see* **Gopalsamy, K.; et al., 94j:35181**

Iordanov, I. V. *see* **Tsachev, Ts., 94c:49028**

Kozlov, S. M. (*with* Pyatnitskiĭ, A. L.) Effective diffusion for a parabolic operator with periodic potential. (English summary) **94b:35050**

Kusano, Takaši (*with* Yoshida, Norio) Oscillation of parabolic equations with oscillating coefficients. **94m:35300**

Li, Xiao Ping[1] (*with* Wu, Ji Zhou) Exact solutions to initial-boundary value problems for a class of parabolic equations and their applications. (Chinese. English and Chinese summaries) **94h:35081**

Liang, Xue Xin (*with* Min, Tai Shan) A property of generalized solutions to parabolic equations. (Chinese. English and Chinese summaries) **94b:35071**

Luo, Nan Chen A Stefan-type free boundary problem with discontinuous coefficients. (Chinese. English and Chinese summaries) **94b:35310**

Marino, Mario (*with* Maugeri, Antonino) $L^{2,\lambda}$ regularity of the spatial derivatives of the solutions to parabolic systems in divergence form. (Italian summary) **94i:35040**

Maugeri, Antonino *see* **Marino, Mario, 94i:35040**

Min, Tai Shan *see* **Liang, Xue Xin, 94b:35071**

Mizohata, Sigeru On some singular boundary value problem for heat operator. **94d:35064**

Mohamed, Fouad A. Continuous dependence of the solution of a Stefan-like problem describing the hydration of tricalcium silicate. **94c:35175**

Nagasawa, Takeyuki The rate of convergence for chemical interfacial reaction models. **94g:80016**

Nguyễn Đình Trí *see* **Phan Huu San, 94b:35312**

Pervak, V. D. Investigation of the stability of solutions of a boundary value problem for linear parabolic equations with close to constant periodic coefficients in the case of exponential dichotomy of the solutions in critical cases. (Russian. Russian summary) **94e:35027**

Phan Huu San (*with* Nguyễn Đình Trí) On a free boundary problem arising from mathematical models for sorption of swelling solvents in glassy polymer. **94b:35312**

Pyatnitskiĭ, A. L. *see* **Kozlov, S. M., 94b:35050**

Radkevich, E. V. On the Stefan heat wave. (Russian) **94h:35277**

Rakotoson, J.-M. *see* **Decarreau, A., 94g:35154**

Reinhardt, Hans-Jürgen (*with* Seiffarth, Frank) On the approximate solution of ill-posed Cauchy problems for parabolic differential equations. **94i:35192**

Rocha, Carlos Some remarks on the singular problem for the scalar parabolic equation with variable diffusion. (English summary) (*see* **94e:00020**)

Seiffarth, Frank *see* **Reinhardt, Hans-Jürgen, 94i:35192**

Shcheglov, A. Yu. Uniform approximation of a solution of an inverse problem by the quasireversibility method. (Russian) **94i:35198**

Soner, Halil Mete *see* **Cannarsa, Piermarco; et al., 94g:49069**

Sun, Da Qing *see* **Gopalsamy, K.; et al., 94j:35181**

Sweezy, Caroline The Hausdorff dimension of elliptic and elliptic-caloric measure in $\mathbf{R}^N$, $N \geq 3$. (English summary) **94i:35060**

Tsachev, Ts. (*with* Iordanov, I. V.) The bang-bang principle for a parabolic optimal control problem with Hölderian cost functional. **94c:49028**

Vafodorova, G. Problems without initial conditions for degenerate parabolic equations. (Russian. Lithuanian summary) **94j:35089**

Wu, Ji Zhou *see* **Li, Xiao Ping[1], 94h:35081**

Yoshida, Norio *see* **Kusano, Takaši, 94m:35300**

Zhumabekov, L. A mixed initial-boundary value problem for a parabolic equation in an angular domain. (Russian. English, Russian and Kazakh summaries) **94h:35082**

35K22 Evolution equations (any order in the spatial derivatives) [see also 58D25]

Auchmuty, Giles (*with* Bao, David) Harnack-type inequalities for evolution equations. (English summary) **94k:35127**

Bao, David *see* **Auchmuty, Giles, 94k:35127**

Chepyzhov, V. V. (*with* Vishik, M. I.) Nonautonomous evolution equations and their attractors. (English summary) **94k:35128**

Eckhaus, Wiktor The Ginzburg-Landau manifold is an attractor. (English summary) **94h:35088**

El-Sayed, A. M. A. A mixed problem for a second order Sturm-Liouville equation. (English summary) **94c:35094**

Faugeras, Olivier Sur l'évolution de courbes simples du plan projectif réel. (English and French summaries) [On the evolution of simple curves of the real projective plane] **94h:35089**

Sidenko, N. R. G-convergence of parabolic periodic operators with a small parameter multiplying the time derivative. (Russian. Russian and Ukrainian summaries) **94j:35066**

Umbetzhanov, D. U. On an almost periodic solution of a matrix differential equation. (Kazakh)

Vishik, M. I. *see* **Chepyzhov, V. V., 94k:35128**

Wittbold, Petra Asymptotic behaviour of certain nonlinear evolution equations in L^1. **94k:35129**

Zhang, Bing-Yu Hardy function and unique continuation for evolution equations. (English summary) **94i:35083**

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Betbeder, Jean-Bernard (*with* Vallet, Guy) La question de l'unicité pour une classe de problèmes d'évolution non linéaires intégro-différentiels. (English and French summaries) [Uniqueness for a class of nonlinear integro-differential Cauchy problems] **94h:35097**

Brandenburg, Axel *see* **Feudel, Fred; et al., 94i:35026**

Cook, John D. (*with* Showalter, R. E.) Distributed systems of PDE in Hilbert space. (English summary) **94i:35190**

Feudel, Fred (*with* Feudel, Ulrike; Brandenburg, Axel) On the bifurcation phenomena of the Kuramoto-Sivashinsky equation. (English summary) **94i:35026**

Feudel, Ulrike *see* **Feudel, Fred; et al., 94i:35026**

Gershtein, L. M. (*with* Sobolevskiĭ, P. E.) "Commutant method" in the theory of operators and the theory of differential equations with operator coefficients. **94b:47091**

Hu, Shou Chuan (*with* Papageorgiou, Nikolaos S.) On the existence of periodic solutions for a class of nonlinear evolution inclusions. (Italian summary) **94k:34120**

Ikehata, Ryo A class of second order quasilinear evolution equations. **94j:34066**

Illner, Reinhard (*with* Neunzert, Helmut) Relative entropy maximization and directed diffusion equations. (English summary) **94i:94009**

Ilmanen, Tom Convergence of the Allen-Cahn equation to Brakke's motion by mean curvature. (English summary) **94h:58051**

Neunzert, Helmut *see* **Illner, Reinhard, 94i:94009**

Nochetto, Ricardo H. (*with* Paolini, Maurizio; Verdi, Claudio) Sharp error analysis for curvature dependent evolving fronts. (English summary) **94k:35028**
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Papageorgiou, Nikolaos S. *see* **Hu, Shou Chuan, 94k:34120**
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Sobolevskiĭ, P. E. *see* **Gershtein, L. M., 94b:47091**
Sprekels, Jürgen (*with* Zheng, Song Mu) Global smooth solutions to a thermodynamically consistent model of phase-field type in higher space dimensions. (English summary) **94f:35064**
Ströhmer, Gerhard An existence result for partially regular weak solutions of certain abstract evolution equations, with an application to magnetohydrodynamics. **94m:35303**
Temam, Roger Variétés inertielles dans le cas non auto-adjoint. Applications aux variétés lentes. [Inertial manifolds in the nonselfadjoint case. Applications to slow manifolds] **94g:58201**
Umarov, Kh. G. A mixed problem in a Banach space for an analogue of the diffusion equation that is not solved with respect to the time derivative. (Russian) **94i:34124**
Vakulenko, S. A. Existence of Ruelle-Takens transition to chaos for some evolution equations. (English and French summaries) **94i:35101**
Vallet, Guy *see* **Betbeder, Jean-Bernard, 94h:35097**
Verdi, Claudio *see* **Nochetto, Ricardo H.; et al., 94k:35028**
Zheng, Song Mu *see* **Sprekels, Jürgen, 94f:35064**

35K25 General theory of higher-order, parabolic equations

Li, X. (*with* Wong, Roderick) Asymptotic behaviour of the fundamental solution to $\partial u/\partial t = -(-\Delta)^m u$. (English summary) **94b:35130**
Wong, Roderick *see* **Li, X., 94b:35130**
Zhitarashu, N. V. On the existence of limit boundary and initial values of weak solutions of parabolic equations. (Russian. English, Russian and Moldavian summaries) **94f:35059**

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Favini, Angelo (*with* Tanabe, Hiroki) Linear parabolic differential equations of higher order in time. (English summary) **94i:34118**
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35K30 Initial value problems for higher-order, parabolic equations

Akulov, V. F. (*with* Shishkov, A. E.) Uniqueness of solutions of mixed problems and the Cauchy problem for parabolic equations of higher order with unbounded coefficients. (Russian. Russian and Ukrainian summaries) **94d:35068**
Casas Rentería, Eduardo (*with* Fernández, Luis Alberto) A Green's formula for quasilinear parabolic operators. (English summary) (*see* **94e:00020**)
Fernández, Luis Alberto *see* **Casas Rentería, Eduardo, (94e:00020)**
Hieber, Matthias On the L^p theory of systems of linear partial differential equations. **94m:35135**
Huang, Fu Ying (*with* Mei, Ming) Global solutions to the initial value problems for higher-dimensional nonlinear fourth-order parabolic equations. (Chinese. English and Chinese summaries) **94b:35131**
Ibragimov, È. Ch. On the well-posedness in the sense of L_2-solution of the Cauchy problem for the nonstationary Schrödinger type equation. (English and Turkish summaries) **94m:35136**
Levenshtam, V. B. Averaging of quasilinear parabolic equations with a rapidly oscillating main part. Exponential dichotomy. (Russian. Russian summary) **94c:35095**
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Nishioka, Kunio Resonance in the Cauchy problem of a parabolic equation. **94m:35137**
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Tom, Michael M. Existence of global solutions for nonlinear dispersive equations. **94b:35132**

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Denisov, V. N. On the asymptotic behavior of the solution of the Cauchy problem for parabolic equations. (Russian) **94b:35045**
Gorodetskiĭ, V. V. (*with* Zhitaryuk, I. V.; Lavrenchuk, V. P.) On the weak stabilization of solutions of the Cauchy problem for linear parabolic equations with a Bessel operator. (Ukrainian. English and Russian summaries) **94g:35025**
Hieber, Matthias (*with* Holderrieth, Albrecht; Neubrander, F.) Regularized semigroups and systems of linear partial differential equations. **94a:47071**
Holderrieth, Albrecht *see* **Hieber, Matthias; et al., 94a:47071**
Lavrenchuk, V. P. *see* **Gorodetskiĭ, V. V.; et al., 94g:35025**
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Zhitaryuk, I. V. *see* **Gorodetskiĭ, V. V.; et al., 94g:35025**

35K35 Boundary value problems for higher-order, parabolic equations

Baderko, E. A. Boundary value problems for a parabolic equation, and boundary integral equations. (Russian. Russian summary) **94h:35090**
Dzhenaliev, M. T. Inhomogeneous problems for an odd-order loaded evolution equation with interior boundary conditions. (Russian. Russian summary) **94k:35130**
Fan, En Gui Global classical solutions to initial-boundary value problems for a class of fourth-order nonlinear parabolic equations. (Chinese. English and Chinese summaries) **94k:35131**
Fardigola, L. V. A criterion for strong well-posedness of a nonlocal two-point boundary value problem in a layer. (Russian) **94m:35138**
Roitberg, Ya. A. On the denseness of solutions of parabolic boundary value problems in function spaces on manifolds. (Russian. English summary) **94h:35091**

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Akulov, V. F. (*with* Shishkov, A. E.) Uniqueness of solutions of mixed problems and the Cauchy problem for parabolic equations of higher order with unbounded coefficients. (Russian. Russian and Ukrainian summaries) **94d:35068**
Gorodetskiĭ, V. V. (*with* Zhitaryuk, I. V.; Lavrenchuk, V. P.) On the weak stabilization of solutions of the Cauchy problem for linear parabolic equations with a Bessel operator. (Ukrainian. English and Russian summaries) **94g:35025**
Grant, Christopher P. Spinodal decomposition for the Cahn-Hilliard equation. (English summary) **94b:35147**
Grubb, Gerd Parabolic pseudo-differential boundary problems and applications. **94c:35179**
Lavrenchuk, V. P. *see* **Gorodetskiĭ, V. V.; et al., 94g:35025**
Lin, Chang Hao (*with* Payne, L. E.) On the spatial decay of ill-posed parabolic problems. (English summary) **94c:35167**
Payne, L. E. *see* **Lin, Chang Hao, 94c:35167**
Shishkov, A. E. Estimates for the rate of propagation of perturbations in quasilinear degenerate higher-order parabolic equations in divergence form. (Russian. Russian and Ukrainian summaries) **94b:35074**
— *see also* **Akulov, V. F., 94d:35068**
Zhitaryuk, I. V. *see* **Gorodetskiĭ, V. V.; et al., 94g:35025**

35K40 General theory of parabolic systems of PDE

Escher, Joachim Quasilinear parabolic systems with dynamical boundary conditions. **94g:35112**
Kenmochi, Nobuyuki (*with* Niedzgódka, M.) Large time behaviour of a nonlinear system for phase separation. (English summary) **94k:35132**
Koshelev, A. Regularity of solutions for some quasilinear parabolic systems. **94h:35092**
Niedzgódka, M. *see* **Kenmochi, Nobuyuki, 94k:35132**
Villa, Beatriz Elena An eigenvalue problem for a parabolic periodic system, and applications. (Spanish) **94d:35069**

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Chadam, John M. (*with* Yin, Hong Ming) A diffusion equation with localized chemical reactions. (English summary) **94m:35156**
De Giorgi, Ennio Conjectures on the limits of the solutions of some quasilinear parabolic equations. (Italian) **94g:35115**
Koshelev, A. Regularity of solutions for quasilinear parabolic systems. (English summary) (*see* **94e:00020**)
Lu, Gang (*with* Sleeman, B. D.) Maximum principles and comparison theorems for semilinear parabolic systems and their applications. (English summary) **94i:35035**
Majchrowski, Marian On inverse problems with nonlocal condition for parabolic systems of partial differential equations and pseudoparabolic equations. **94g:35221**
McNabb, Alex *see* **Parshotam, Aroon; et al., 94i:35092**
Murthy, M. K. Venkatesha Some remarks on pseudo-differential parabolic mixed problems of general type. **94a:35121**
Parshotam, Aroon (*with* McNabb, Alex; Wake, Graeme) Comparison theorems for coupled reaction-diffusion equations in chemical reactor analysis. (English summary) **94i:35092**
Sleeman, B. D. *see* **Lu, Gang, 94i:35035**
Wake, Graeme *see* **Parshotam, Aroon; et al., 94i:35092**
Yagi, Atsushi Some quasilinear parabolic problems in applied mathematics. **94h:35094**
Yin, Hong Ming *see* **Chadam, John M., 94m:35156**
Zhou, Chi Ping Maximum principles for weakly coupled parabolic systems. (English summary) **94d:35025**

35K45 Initial value problems for pararabolic systems

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Bouillet, Julio E. Nonuniqueness in L^∞: an example. **94h:35099**
Dinh Phú Bòng *see* **Radyno, Ya. V., 94e:35154**
Fattorusso, Luisa (*with* Idone, Giovanna) $\mathcal{L}^{2,\lambda+2}$-regularity of the solutions to nonhomogeneous parabolic systems in divergence form. (English summary) **94i:35084**
Gopalsamy, K. Oscillations in parabolic neutral systems. (English summary) **94d:35155**
Hadiji, R. (*with* Zhou, F.) Regularity of $\int_\Omega |\nabla u|^2 + \lambda \int_\Omega |u - f|^2$ and some gap phenomenon. (English and French summaries) **94i:35107**
Idone, Giovanna *see* **Fattorusso, Luisa, 94i:35084**
Kifer, Yuri Principal eigenvalues and equilibrium states corresponding to weakly coupled parabolic systems of PDE. (English summary) **94m:35221a**
— Correction to: "Principal eigenvalues and equilibrium states corresponding to weakly coupled parabolic systems of PDE". **94m:35221b**
Korman, Philip A computer-assisted study of periodic parabolic systems. **94c:65123**
Levine, H. A. *see* **Qi, Yuan-Wei, 94b:35153**
Lu, Yun Guang (*with* Zhu, Chang Jiang; Zhao, Hui Jiang) Viscous solutions of quadratic conservation laws with umbilic points. **94h:35155**
Naumkin, P. I. (*with* Shishmarëv, I. A.) On a system of equations that describes nerve conduction. (Russian) **94i:35212**
Qi, Yuan-Wei (*with* Levine, H. A.) The critical exponent of degenerate parabolic systems. (English summary) **94b:35153**
Radyno, Ya. V. (*with* Dinh Phú Bòng) A two-phase problem with a free boundary for an equation of parabolic type in an infinite domain. (Russian. Russian summary) **94e:35154**
Schenkel, Alain (*with* Wittwer, Peter; Stubbe, Joachim) Asymptotics of solutions in an $A + B \to C$ reaction-diffusion system. (English summary) **94i:35032**
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Xie, Wei Qing On the existence and uniqueness for the thermistor problem. (English summary) **94g:35210**
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35K50 Boundary value problems for parabolic systems

Brown, Russell M. (*with* Shen, Zhong Wei) Boundary value problems in Lipschitz cylinders for three-dimensional parabolic systems. (English summary) **94b:35133**
Escher, Joachim A note on quasilinear parabolic systems with dynamical boundary conditions. **94j:35067**
Fattorusso, Luisa (*with* Idone, Giovanna) $\mathcal{L}^{2,\lambda+2}$-regularity of the solutions to nonhomogeneous parabolic systems in divergence form. (English summary) **94i:35084**
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Orynbasarov, M. O. A nonlocal boundary value problem for a parabolic system of equations in a wedge-shaped domain. (Russian. English, Russian and Kazakh summaries) **94h:35093**
Shen, Zhong Wei *see* **Brown, Russell M., 94b:35133**
Sivakov, D. V. On a problem of A. N. Tikhonov in a semibounded domain. (Russian. Russian summary) **94k:35133**
Taraborkin, L. A. Semilinear problem of conjugating elliptic and parabolic equations with flow leap evolution in mixed transmission conditions. (English summary) **94i:35085**
Tarsia, Antonio Nonvariational parabolic systems with solutions satisfying a generalized periodicity condition. (Italian. English summary) **94j:35068**
Yagi, Atsushi Some quasilinear parabolic problems in applied mathematics. **94h:35094**
Zadrzyńska, E. (*with* Zajączkowski, W. M.) On existence of solutions of mixed problems for parabolic systems. **94k:35134**
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Akramov, T. A. (*with* Vishnevskiĭ, M. P.) Global solvability of diffusion-reaction systems. (Russian. English and Russian summaries) **94h:35113**
Bauman, Patricia (*with* Carlson, Neil N.; Phillips, Daniel) On the zeros of solutions to Ginzburg-Landau type systems. (English summary) **94g:35187**
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Cantrell, Robert Stephen (*with* Cosner, Chris; Hutson, V. C. L.) Permanence in ecological systems with spatial heterogeneity. (English summary) **94i:35096**
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Gang, Lu (*with* Sleeman, B. D.) Nonexistence of global solutions to systems of semilinear parabolic equations. **94e:35018**
Grubb, Gerd Parabolic pseudo-differential boundary problems and applications. **94c:35179**
Hu, Xi Yan (*with* Zhang, Xue Yuan) M-criteria for the consistent suitability of the Cauchy problem of linear partial differential systems. (English and Chinese summaries) **94b:35011**
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Kolesov, Yu. S. Bifurcation of invariant tori of parabolic systems with small diffusion. (Russian. Russian summary) **94j:35023**
Kosheley, A. Regularity of solutions for some quasilinear parabolic systems. **94h:35092**
Krasińska, Stefania About solving some systems with distributed parameters under boundary conditions. (English summary) (*see* **94m:00023**)
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Temirbulatov, S. I. (*with* Bektasov, A. Sh.) An ill-posed problem for a second-order parabolic system. (Russian. English, Russian and Kazakh summaries) **94m:35304**
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Vishnevskiĭ, M. P. Stabilization of solutions of weakly coupled cooperative parabolic systems. (Russian. Russian summary) **94e:35028**
— *see also* **Akramov, T. A., 94h:35113**
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35K55 Nonlinear PDE of parabolic type

Abdullaev, U. G. On the localization of unbounded solutions of the nonlinear heat equation with transfer. (Russian) **94h:35095**
— Existence of unbounded solutions of a nonlinear heat equation with a sink. (Russian. Russian summary) **94e:35068**
Akhmerov, R. R. On the set of solutions to a nonlinear forward backward parabolic equation. (English summary) **94k:35135**
Akopyan, G. S. (*with* Shakhbagyan, R. L.) On the Lyapunov function of semigroups generated by higher-order nonlinear parabolic equations. (Russian. English, Russian and Armenian summaries) **94h:35096**
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— *see also* **Wang, Yun Bo; et al., 94b:35139**
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Betbeder, Jean-Bernard (*with* Vallet, Guy) La question de l'unicité pour une classe de problèmes d'évolution non linéaires intégro-différentiels. (English and French summaries) [Uniqueness for a class of nonlinear integro-differential Cauchy problems] **94h:35097**
Bokalo, N. M. Unique solvability of boundary value problems for semilinear parabolic equations in unbounded domains without conditions at infinity. (Russian. English and Russian summaries) **94h:35098**
Bouillet, Julio E. Nonuniqueness in L^∞: an example. **94h:35099**
Byszewski, Ludwik Monotone iterative method for a system of nonlocal initial-boundary parabolic problems. (English summary) **94g:35113**
Carl, Siegfried (*with* Heikkilä, Seppo) Extremal solutions of quasilinear parabolic boundary value problems with discontinuous nonlinearities. (English summary) **94m:35139**
Chayes, J. T. (*with* Osher, Stanley; Ralston, James V.) On singular diffusion equations with applications to self-organized criticality. (English summary) **94i:35086**
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— On the regularity of parabolic equations and obstacle problems with quadratic growth nonlinearities. **94b:35134**
Cholewa, Jan W. Local solvability of higher-order semilinear parabolic equations. **94d:35070**
— Higher-dimensional semilinear parabolic problems. **94j:35070**
— (*with* Dłotko, Tomasz) Global attractor for the Cahn-Hilliard system. (English summary) **94m:35141**
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Filippas, Stathis (*with* Liu, Wen Xiong) On the blowup of multidimensional semilinear heat equations. (English and French summaries) **94k:35139**
Fitzgibbon, W. E. (*with* Morgan, Jeff J.; Sanders, Richard) Global existence and boundedness for a class of inhomogeneous semilinear parabolic systems. **94a:35057**
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Fuchssteiner, Benno (*with* Lo Schiavo, Mauro) Nilpotent and recursive flows. (English summary) **94j:35071**
Fukuda, Isamu (*with* Ishii, Hitoshi; Tsutsumi, Masayoshi) Uniqueness of solutions to the Cauchy problem for $u_t - u\Delta u + \gamma|\nabla u|^2 = 0$. (English summary) **94h:35100**
Fushchich, V. I. (*with* Serov, N. I.; Tulupova, L. A.) The conditional invariance and exact solutions of the nonlinear diffusion equation. (Russian summary) **94h:35101**
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— (*with* Vázquez, Juan Luis) Regional blow up in a semilinear heat equation with convergence to a Hamilton-Jacobi equation. (English summary) **94k:35140**
— *see also* **Velázquez, Juan J. L.; et al., 94b:35138**
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Guglielmino, Francesco (*with* Nicolosi, Francesco) Existence results for boundary value problems associated with a class of quasilinear parabolic equations. (Italian. English summary) **94j:35073**
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King, John Robert Exact multidimensional solutions to some nonlinear diffusion equations. (English summary) **94h:35104**

Krasnosel'skiĭ, M. A. (*with* Pokrovskiĭ, A. V.; Chernorutskiĭ, V. V.; Tronel', Zh.) On the dynamics of controlled systems described by equations of parabolic type with hysteresis nonlinearities. (Russian. Russian summary) **94d:35071**

Kudryashov, N. A. Multiphase and rational solutions of nonlinear equations of a certain family. (Russian. English and Russian summaries) **94h:35105**

Kurta, V. V. On the behavior of solutions of second-order quasilinear parabolic equations in unbounded nontube domains. (Russian. Russian and Ukrainian summaries) **94d:35072**

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Lacey, A. A. (*with* Tzanetis, D. E.) Global, unbounded solutions to a parabolic equation. (English summary) **94a:35058**

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— Conditions for the solvability of the first boundary value problem for the parabolic equation $F(t, x, u, u_x, \Delta u, u_t) = 0$. (Russian. Russian summary) **94g:35116**

Li, Yan Ling (*with* Wang, Ji; Wu, Jian Hua[3]) Blow-up of a class of parabolic equations with gradient terms. (Chinese. English summary) **94f:35061**

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Bianchi, Monica Wiener estimates for degenerate parabolic obstacle problems. (Italian. English summary) **94m:35169**

Blanc, Philippe On the regularity of the solutions of some degenerate parabolic equations. **94c:35044**

Choe, Hi Jun (*with* Kim, Jongsik) An integral estimate for porous medium equation. **94m:35140**

Comparini, Elena (*with* Ricci, Riccardo; Vázquez, Juan Luis) Asymptotic behavior of the solutions of a nonlinear Fokker-Planck equation with Dirichlet boundary conditions. **94f:35017**

Decarreau, A. (*with* Rakotoson, J.-M.) Nonlinear elliptic-parabolic equations with L^1-data. (English summary) **94g:35154**

Dhaigude, D. B. (*with* Kasture, D. Y.) Nonlinear time degenerate parabolic inequalities and applications. (English summary) **94a:35118**

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Eidus, D. (*with* Kamin, Shoshana) The filtration equation in a class of functions decreasing at infinity. **94e:35070**

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He, Ji Biao Blowup properties of a class of degenerate parabolic equations. (Chinese. English and Chinese summaries) **94e:35026**

Herrero, M. A. (*with* Velázquez, Juan J. L.) Plane structures in thermal runaway. (English summary) **94i:35090**

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Ivanov, A. V. Quasilinear parabolic equations that admit double degeneration. (Russian. Russian summary) **94a:35065**

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Kawanago, Tadashi Asymptotic behavior as $t \to \infty$ of solutions of quasi-linear heat equations. **94f:35060**

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Manfredi, Juan J. (*with* Vespri, Vincenzo) Large time behavior of solutions to a class of doubly nonlinear parabolic equations. (English summary) **94m:35147**

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Yang, Jin Shun (*with* Zhao, Shu Zhen) A two-phase free boundary problem for a class of quasilinear degenerate parabolic equations. (Chinese. English and Chinese summaries) **94j:35202**
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35K70 Ultraparabolic, pseudoparabolic PDE, etc.

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— Estimates for the solution of the half-space Dirichlet problem for a higher-order pseudoparabolic equation in $L_q^{(\chi,\nu)}$-classes. (Russian. English, Russian and Kazakh summaries) **94m:35168**
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Kurmushev, I. K. An estimate for the solution of an inhomogeneous general half-space problem for a pseudoparabolic equation in Sobolev classes. (Russian. English, Russian and Kazakh summaries) **94j:35091**
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Tian, Ying Hui The blow-up properties of generalized nonlinear pseudoparabolic and pseudohyperbolic equations. (Chinese. English and Chinese summaries) **94j:35092**
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Majchrowski, Marian On inverse problems with nonlocal condition for parabolic systems of partial differential equations and pseudoparabolic equations. **94g:35221**

35K85 Unilateral problems and variational inequalities for parabolic PDE [see also 35R35, 49J40]

Bianchi, Monica Wiener estimates for degenerate parabolic obstacle problems. (Italian. English summary) **94m:35169**
Hadiji, R. (*with* Zhou, F.) Regularity of $\int_\Omega |\nabla u|^2 + \lambda \int_\Omega |u - f|^2$ and some gap phenomenon. (English and French summaries) **94i:35107**
Kato, Yoshio Variational inequalities of Bingham type in three dimensions. **94d:35087**
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— (*with* Koyama, Tetsuya; Visintin, Augusto) On a class of variational inequalities with memory terms. **94b:35154**
— (*with* Niezgódka, Marek; Pawłow, I.) Parabolic variational inequality for the Cahn-Hilliard equation with constraint. **94i:35108**
Koyama, Tetsuya Asymptotic stability for a class of variational inequalities with hysteresis. (English summary) **94i:35109**
— *see also* **Kenmochi, Nobuyuki; et al., 94b:35154**
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Alt, H. W. (*with* van Duijn, Cornelis Johannes) A free boundary problem involving a cusp. I. Global analysis. (English summary) **94d:35163**
Bernardi, Marco Luigi (*with* Luterotti, Fabio) On some classes of singular variational inequalities. **94h:34072**
Byszewski, Ludwik Monotone iterative method for a system of nonlocal initial-boundary parabolic problems. (English summary) **94g:35113**
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Kenmochi, Nobuyuki (*with* Visintin, Augusto) Asymptotic stability for parabolic variational inequalities with hysteresis. **94g:49022**
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Luterotti, Fabio *see* **Bernardi, Marco Luigi, 94h:34072**
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35K99 None of the above, but in this section

Roşculeţ, M. N. Opérateurs intégraux qui généralisent les équations différentielles. XIV. III. Formules de moyenne pondérée pour les équations du type parabolique. (English, French and Romanian summaries) [Integral equations that generalize differential equations. XIV. III. Weighted mean formulas for equations of parabolic type]
— Opérateurs intégraux qui généralisent les équations différentielles. XV. IV. Formules de moyenne pondérée pour les équations du type parabolique. (English, French and Romanian summaries) [Integral operators that generalize differential equations. XV. IV. Weighted mean formulas for equations of parabolic type]

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— (*with* Menaldi, José-Luis) Regularizing effect for integro-differential parabolic equations. **94k:45012**
Gopalsamy, K. (*with* Weng, Pei Xuan) Global attractivity and "level crossings" in a periodic partial integrodifferential equation. (English summary) **94a:45020**
Guan, Ping *see* **Wang, Yuan Ming; et al., 94a:78013**
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35Lxx Partial differential equations of hyperbolic type [see also 58G16]

Kajitani, Kunihiko (*with* Nishitani, Tatsuo) ★ The hyperbolic Cauchy problem. **94f:35074**
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35L05 Wave equation

Ali Mehmeti, Felix Reflection and refraction of singularities for wave equations with interface conditions given by Fourier integral operators. **94h:35135**
Bazarbekov, A. B. An analogue of the Darboux problem for the two-dimensional wave equation. I. (Russian. Russian summary) **94d:35088**
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Beals, Michael (*with* Strauss, Walter A.) L^p estimates for the wave equation with a potential. **94j:35093**
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Cox, Steven J. (*with* Zuazua, Enrike) Estimations sur le taux de décroissance exponentielle de l'énergie dans des équations des ondes dissipatives linéaires. (English and French summaries) [On the exponential decay rate of energy in linear dissipative wave equations] **94f:35075**
Ducomet, Bernard Décroissance des solutions de l'équation des ondes à l'extérieur de surfaces rugueuses. (English and French summaries) [Decay of solutions of the wave equation outside rough surfaces] **94m:35171**
Fushchich, V. I. (*with* Zhdanov, R. Z.; Revenko, I. V.) On the general solution of the d'Alembert equation with nonlinear eikonal constraint. (English summary) **94j:35095**
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Kipriyanov, I. A. (*with* Zasorin, Yu. V.) Fundamental solution of the wave equation with several singularities and the Huygens principle. (Russian. Russian summary) **94e:35082**
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Powell, Jeffrey O. An unconditional estimate for solutions of a wave equation. **94j:35096**
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— *see also* **Fushchich, V. I.; et al., 94c:35112** *and* **94j:35095**
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— Unilateral problems for vibrating strings or membranes. **94j:35108**
Anger, Gottfried A measure-theoretic approach for studying inverse problems of the heat equation and the wave equation. (English summary) **94b:35293**
Barut, A. O. (*with* Chandola, H. C.) "Localized" tachyonic wavelet solutions of the wave equation. (English summary) **94k:81036**
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Boelle, Jean-Luc (*with* Croc, Élisabeth; Dermenjian, Yves) Spectral and numerical analysis of wave equation 2D in a stratified acoustical or elastic media with two welded stratifications. (English summary) **94e:65110**
Bourquin, Frédéric Approximation theory for the problem of exact controllability of the wave equation with boundary control. **94f:93009**
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Chudinovich, I. Yu. The boundary equation method in the third initial-boundary value problem of the theory of elasticity. I. Existence theorems. (English summary) **94f:73023a**
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Collino, Francis High order absorbing boundary conditions for wave propagation models: straight line boundary and corner cases. (English summary) **94e:65091**
Conrad, Francis (*with* Rao, Bopeng) Decay of solutions of the wave equation in a star-shaped domain with nonlinear boundary feedback. (English summary) **94f:35015**
Cooper, Jeffery Asymptotic behavior for the vibrating string with a moving boundary. **94f:35018**
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Dyukova, M. V. (*with* Tkachëv, D. L.) Examples of ill-posedness in a mixed problem for the wave equation in nonsmooth domains. (Russian. Russian summary) **94e:35138**
El Badia, Abdellatif Application de théorèmes d'unicité à un problème inverse pour l'équation des ondes. (English and French summaries) [An inverse problem for the wave equation based on a uniqueness theorem] **94c:35168**
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Khodakovskiĭ, A. M. Direct proof of energy conservation for the automorphic wave equation. (Russian. English and Russian summaries) **94m:11065**
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Kubota, Kôji (*with* Mochizuki, Kiyoshi) On small data scattering for 2-dimensional semilinear wave equations. **94d:35124**
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Kuzin, I. A. Some embedding theorems for spaces of Krein-Pontryagin type and their application to periodic problems. (Russian) **94d:35108**
Kuznetsov, Yurii Alekseevich (*with* Lipnikov, K. N.) The method of fictitious domains for solving the Helmholtz wave equation in an unbounded domain. (Russian) (*see* **94e:65004**)
Lafitte, Olivier Calcul microlocal de la solution de l'équation des ondes dans la zone d'ombre d'un obstacle strictement convexe de frontière analytique. (English and French summaries) [High-frequency asymptotics for the solution of the wave equation in the shadow of a convex obstacle with analytic boundary] **94b:35021**
Léandre, Rémi (*with* Russo, Francesco) Small stochastic perturbation of a one-dimensional wave equation. (English summary) **94a:60093**
Lebeau, Gilles Control for hyperbolic equations. **94b:93070**
Le Trong Luc On the inverse source problem for the wave operator. **94g:35220**
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Littman, Walter (*with* Taylor, Stephen W.) Smoothing evolution equations and boundary control theory. (English summary) **94f:35016**
Liu, Jian Hua (*with* Guo, Bao Qi; Fan, Qing Duo) Plane-wave depth migration of wave equations. (Chinese. English and Chinese summaries)
Milla Miranda, Manuel Contrôlabilité exacte de l'équation des ondes dans des domaines non cylindriques. (English and French summaries) [Exact controllability of the wave equation in noncylindrical domains] **94g:35028**
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Orochko, Yu. B. Essential selfadjointness of operators connected with the Cauchy problem for the wave equation. (Russian. Russian and Ukrainian summaries) **94c:47101**
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Qin, Meng Zhao (*with* Zhu, Wen Jie) Construction of symplectic schemes for wave equations via hyperbolic functions $\sinh(x)$, $\cosh(x)$ and $\tanh(x)$. (English summary) **94i:65118**
Rakesh An inverse problem for the wave equation in the half plane. (English summary) **94j:35193**
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Roach, G. F. (*with* Zhang, Bo[1]) Spectral representation and scattering theory for the wave equation with two unbounded media. (English summary) **94b:35198**
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Triggiani, Roberto Interior and boundary regularity of the wave equation with interior point control. (English summary) **94a:35022**
Vasil'ev, F. P. (*with* Kurzhanskiĭ, M. A.; Razgulin, A. V.) The Fourier method for solving a problem of the control of the vibration of a string. (Russian. Russian summary) **94f:93017**
Werner, Peter Resonance phenomena in a semi-infinite string with a periodic end. (English summary) **94g:35019**
Weston, Vaughan H. Invariant imbedding and wave splitting in $\mathbf{R}^3$. II. The Green function approach to inverse scattering. (English summary) **94b:35304**
— (*with* He, Sailing) Wave splitting of the telegraph equation in $\mathbf{R}^3$ and its application to inverse scattering. (English summary) **94k:35330**
Wyler, Andreas Stability of wave equations with dissipative boundary conditions in a bounded domain. (English summary) **94m:35031**

Yu, Jian She (*with* Song, Shou Gen) Oscillatory behavior of reduced wave equations. (Chinese. English and Chinese summaries) **94g:35015**
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Zhestkov, S. V. Coefficient conditions for the existence of ω-periodic solutions of quasilinear wave systems. (Russian. Russian summary) **94c:35021**
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35L10 General theory of second-order, hyperbolic equations

Egorov, Yurii Vladimirovich Sur un example d'équation linéaire hyperbolique n'ayant pas de solution. [Example of an unsolvable hyperbolic linear equation] **94b:35157**
— On an example of a linear hyperbolic equation without solutions. (English and French summaries) **94k:35176**
Oganesyan, A. O. Solution of the Hadamard problem for a class of hyperbolic equations with variable coefficients. (Russian. Russian summary) **94g:35134**
Perzhan, A. V. L_2-estimates of solutions of the singular hyperbolic equations. (English, Russian and Moldavian summaries) **94h:35138**
Petrini, M. (*with* Sordoni, V.) Propagation of singularities for hyperbolic operators with double characteristics. (English summary) **94h:35141**
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Anderson, W. G. (*with* McLenaghan, R. G.) On Huygens' principle for relativistic wave equations. (English summary) **94f:58125**
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Durmagambetov, A. A. (*with* Dzhandigulov, A. R.) Fundamental solution of an ultrahyperbolic operator. (Russian. English, Russian and Kazakh summaries) **94k:35063**
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Grasselli, Maurizio On an inverse problem for a linear hyperbolic integrodifferential equation. (English summary) **94m:35307**
Higdon, Robert L. Radiation boundary conditions for dispersive waves. (English summary) **94k:35178**
Krutitskii, P. A. Solution of a hyperbolic boundary value problem as a result of applying the limit amplitude principle to an initial-boundary value problem for an equation of composite type. (Russian) **94b:35186**
Lalli, Bikkar S. (*with* Yu, Yuan Hong; Cui, Bao Tong) Oscillation of hyperbolic equations with functional arguments. **94b:35023**
Leis, Rolf Initial value problems in elasticity. **94b:35282**
Marchant, T. R. Thermal waves for nonlinear hyperbolic heat conduction. (English summary) **94k:80004**
McLenaghan, R. G. *see* **Anderson, W. G., 94f:58125**
Messano, B. On functional equations of the form $A(x) - A(\tau(x)) = \varphi(x)$ and Goursat problem for the equation $\partial^2 z(x,y)/\partial x \partial y = f(x,y)$. (English and Italian summaries) **94b:39020**
Vainberg, B. R. Scattering of waves in a medium depending periodically on time. (English summary) **94h:35199**
Yang, Sheng Rong (*with* Zhang, Wei Jiang) Asymptotic analysis of the boundary layer method in singular perturbation problems for hyperbolic partial differential equations. (Chinese. English and Chinese summaries) **94k:65144**
Yu, Yuan Hong *see* **Lalli, Bikkar S.; et al., 94b:35023**
Zhang, Wei Jiang *see* **Yang, Sheng Rong, 94k:65144**

35L15 Initial value problems for second-order, hyperbolic equations

Bellout, Hamid (*with* Bloom, Frederick) Global existence and asymptotic stability of solutions to the Cauchy problem for wave propagation in nonlinear dielectric media. **94b:35158**
Berest, Yu. Yu. (*with* Veselov, A. P.) The Huygens principle and Coxeter groups. (Russian) **94i:35110**
Bloom, Frederick *see* **Bellout, Hamid, 94b:35158**
Colombini, Ferruccio Quelques remarques sur le problème de Cauchy pour des équations faiblement hyperboliques. [Some remarks on the Cauchy problem for weakly hyperbolic equations] **94a:35072**
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Caviglia, Giacomo (*with* Cermelli, P.; Morro, Angelo) Time-harmonic waves in continuously layered media. (English summary) **94k:35177**
Cermelli, P. *see* **Caviglia, Giacomo; et al., 94k:35177**
Denisov, V. N. On the structure of the power asymptotics of the solution of the Cauchy problem for parabolic and hyperbolic equations. (Russian) **94i:35081**
Hayashi, Nakao Global existence of small radially symmetric solutions to quadratic nonlinear wave equations in an exterior domain. (English summary) **94k:35196**
Heikkilä, Seppo (*with* Leela, S.) On second order discontinuous differential equations in Banach spaces. (English summary) **94i:34128**
Katayama, Soichiro Global existence for some fully nonlinear wave equations with small data. (English summary) **94j:35105**
Klainerman, Sergiu (*with* Machedon, M.) Space-time estimates for null forms and the local existence theorem. **94h:35137**
Leela, S. *see* **Heikkilä, Seppo, 94i:34128**
Lindblad, Hans A sharp counterexample to the local existence of low-regularity solutions to nonlinear wave equations. **94h:35165**
Machedon, M. *see* **Klainerman, Sergiu, 94h:35137**
Morro, Angelo *see* **Caviglia, Giacomo; et al., 94k:35177**
Nakao, Mitsuhiro (*with* Ono, Kousuke) Existence of global solutions to the Cauchy problem for the semilinear dissipative wave equations. **94h:35167**
Ono, Kousuke *see* **Nakao, Mitsuhiro, 94h:35167**
Papageorgiou, Nikolaos S. Existence of solutions for hyperbolic differential inclusions in Banach spaces. (English summary) **94h:35283**
— Existence of solutions for hyperbolic differential inclusions in Banach spaces. (English summary) **94h:35284**
Strauss, Walter A. *see* **Beals, Michael, 94j:35093**
Tsutaya, Kimitoshi Global existence theorem for semilinear wave equations with noncompact data in two space dimensions. **94g:35152**
Weston, Vaughan H. Root of a second order hyperbolic differential operator and wave splitting. (English summary) **94c:35113**

35L20 Boundary value problems for second-order, hyperbolic equations

Aldashev, S. A. Some boundary value problems for hyperbolic equations with a wave operator in the principal part. (Russian) **94d:35090**
Bazarbekov, A. B. (*with* Bazarbekov, Ak. B.) The Goursat and Darboux problems for the two-dimensional wave equation. (Russian. English, Russian and Kazakh summaries) **94m:35175**
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Caviglia, Giacomo (*with* Cermelli, P.; Morro, Angelo) Time-harmonic waves in continuously layered media. (English summary) **94k:35177**
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Charalambopoulos, Antonios Morawetz's method for the decay of the solution of the exterior initial-boundary value problem for the linearized equation of dynamic elasticity. (English summary) **94f:35077**
Egorov, Yurii Vladimirovich On the solution of a mixed boundary value problem for an equation of the vibrations of a string. (Russian) **94g:35135**
Gu, Xiao Ming A class of boundary problems for some hyperbolic equations. (English summary) **94b:35159**
Higdon, Robert L. Radiation boundary conditions for dispersive waves. (English summary) **94k:35178**
Ismatov, M. On the asymptotics of the energy of the generalized solution of a system of equations in the theory of elasticity for large time values. (Russian. Russian summary) **94d:35091**
Kabanov, Yu. M. Probabilistic representation of a solution of the telegraph equation. (Russian) **94j:35097**
Kiguradze, T. I. On existence and uniqueness of solutions of periodic boundary value problems for linear hyperbolic equations. (Russian and Georgian summaries) **94m:35176**
Korzyuk, V. I. The first mixed problem for a second-order linear hyperbolic equation with homogeneous conditions in the case of a nontube domain. (Russian. Russian summary) **94c:35114**
Lin, Chin Yuan Well-posedness and asymptotics of solutions for a class of wave equations with a nonlinear boundary stabilizer. (English summary) **94d:35092**
Lyashenko, A. A. The first boundary value problem for the vibrating string equation in domains with piecewise smooth boundary. **94a:35073**
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Ovezova, M. M. On the solvability of Darboux problems for a hyperbolic system. (Russian) **94c:35115**
Popivanov, N. I. (*with* Schneider, Manfred Friedrich) The Darboux problems in $\mathbf{R}^3$ for a class of degenerating hyperbolic equations. (English summary) **94f:35078**
Ram, Yitshak M. (*with* Caldwell, James) The free vibration of the finite string by the method of images. (English summary) **94a:35074**
Schneider, Manfred Friedrich *see* **Popivanov, N. I., 94f:35078**
Suzuki, Fukuzo (*with* Taniguchi, Masaru) Three applications of a systematization of second order hyperbolic equations. **94j:35098**
— *see also* **Taniguchi, Masaru, 94j:35099**
Taniguchi, Masaru (*with* Suzuki, Fukuzo) Initial-boundary value problem for the wave equation in a domain with a corner. **94j:35099**
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Yamamoto, Kazuhiro An example of surface elastic waves arising from the interior. **94c:35116**
Zhang, Jian Instability of the initial-boundary value problem for semilinear wave equations. (Chinese. English and Chinese summaries) **94i:35111**

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Antonets, M. A. Initial-boundary value problems for evolution equations with a transmission condition on an unbounded surface. (Russian) **94k:35215**
Avdeev, A. V. *see* **Alekseev, A. S.; et al., 94i:86009**
Bahk, Sang-Kyu *see* **Choi, Q-Heung; et al., 94i:35124**
Bardos, Claude (*with* Lebeau, Gilles; Rauch, Jeffrey) Sharp sufficient conditions for the observation, control, and stabilization of waves from the boundary. (English summary) **94b:93067**
Cheverda, V. A. *see* **Alekseev, A. S.; et al., 94i:86009**
Choi, Q-Heung (*with* Bahk, Sang-Kyu; Jung, Tacksun; Kim, Jongsik) Uniqueness theorems in the Ambrosetti type semilinear wave equation. **94i:35124**
Ciobanu, Gh. Gr. Stability and continuous dependence in linear viscoelasticity. **94k:73038**
Cui, Bao Tong *see* **Lalli, Bikkar S.; et al., 94b:35023**
Dzhenaliev, M. T. Boundary value problems and optimal control problems for linear loaded equations of hyperbolic type. (Russian. Russian summary) **94a:49017**
Fatianov, A. G. *see* **Alekseev, A. S.; et al., 94i:86009**
Hayashi, Nakao Global existence of small radially symmetric solutions to quadratic nonlinear wave equations in an exterior domain. (English summary) **94k:35196**
Hsiao, George C. (*with* Sprekels, Jürgen) On the identification of distributed parameters in hyperbolic equations. (English summary) **94a:35113**
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Jung, Tacksun *see* **Choi, Q-Heung; et al., 94i:35124**
Kim, Jongsik *see* **Choi, Q-Heung; et al., 94i:35124**
Kobayashi, Takayuki (*with* Pecher, Hartmut; Shibata, Yoshihiro) On a global in time existence theorem of smooth solutions to a nonlinear wave equation with viscosity. **94d:35107**
Kreith, Kurt A selfadjoint "simultaneous crossing of the axis". (English and Georgian summaries) **94i:35043**
Lalli, Bikkar S. (*with* Yu, Yuan Hong; Cui, Bao Tong) Oscillation of hyperbolic equations with functional arguments. **94b:35023**
Laptinskiĭ, V. N. The analytic structure of doubly periodic solutions of linear wave systems. (Russian. English and Russian summaries) **94b:35028**
Lasiecka, Irena (*with* Tătaru, D.) Uniform boundary stabilization of semilinear wave equations with nonlinear boundary damping. (English summary) **94c:35129**
Lebeau, Gilles Propagation des ondes dans les dièdres. [Wave propagation in dihedra] **94m:58219**
— *see also* **Bardos, Claude; et al., 94b:93067**
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Sazonov, Yu. A. On the uniqueness of the classical solution of a mixed problem for a second-order singular hyperbolic equation. (Russian) **94m:35203**
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Wang, Han Kun Stabilization of wave equations coupled in parallel by viscous damping. (English summary) **94h:93072**
Wang, Min Hua On applications of symmetric positive systems to elasticity. **94b:35285**
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Zhang, Jian An initial-boundary value problem for a degenerate hyperbolic equation. (Chinese. English and Chinese summaries) **94h:35173**

35L25 General theory of higher-order, hyperbolic equations

Baltag, Yu. I. On the L_p-boundedness of the resolvent operator of the Cauchy problem for a higher-order one-dimensional hyperbolic equation. (Russian. English, Russian and Moldavian summaries) **94d:35093**
Bollini, C. G. (*with* Giambiagi, J. J.) Arbitrary powers of d'Alembertians and the Huygens principle. (English summary) **94b:35160**
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Kolesnik, A. D. Factorization of infinitesimal operators of Markov random evolutions. (Russian. Russian summary) **94b:60070**
Zhang, Wei Tao (*with* Feng, De Xing) Analysis of boundary layer singularity of a hyperbolic equation. (English summary) **94k:35032**

35L30 Initial value problems for higher-order, hyperbolic equations

Bernardi, Enrico (*with* Bove, Antonio; Parenti, Cesare) Geometric results for a class of hyperbolic operators with double characteristics. II. (English summary) **94i:35112**
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Chen, Hua[1] Some problems on totally characteristic operators. (Chinese. English and Chinese summaries) **94i:35113**
Komatsu, Gen (*with* Nishitani, Tatsuo) Continuation of bicharacteristics for effectively hyperbolic operators. **94b:35161**
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Ptashnik, B. I. (*with* Shtabalyuk, P. I.) A multipoint problem for hyperbolic equations in a class of functions that are almost periodic with respect to the space variables. (Ukrainian. Ukrainian summary) **94h:35139**
Shtabalyuk, P. I. *see* **Ptashnik, B. I., 94h:35139**
Sordoni, V. Necessary and sufficient conditions for the well posedness of the Cauchy problem for a class of hyperbolic operators with high variable multiplicity. **94h:35140**
Sugimoto, Mitsuru On some L^p-estimates for hyperbolic equations. **94f:35079**

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Lorenz, Michael (*with* Smaiel, Yasser Al) Reflection of branching asymptotics for hyperbolic problems. **94a:35019**
Ohya, Yujiro A remark on the Cauchy problem of nonstrict hyperbolicity. **94h:35172**
Roitberg, Ya. A. The Cauchy problem, boundary value and mixed problems for hyperbolic systems in the complete scale of Sobolev type spaces. **94i:35116**
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Uchiyama, Kôichi L^2-theory of singular perturbation of hyperbolic equations. II. Asymptotic expansions of dissipative type. (English summary) **94k:35030**

35L35 Boundary value problems for higher-order, hyperbolic equations

Bobik, I. O. Boundary value problems for a hyperbolic equation with constant coefficients. (Ukrainian. English and Russian summaries) **94h:35142**
Borzymowski, Andrzej A Riquier-like problem for a hyperbolic partial differential equation. (English and Italian summaries) **94d:35094**
El-Kady, A. A. A mixed problem for a higher order hyperbolic equation. (English and Arabic summaries) **94e:35083**
Kardashov, V. R. A method for solving a problem on forced periodic oscillations of a thin plate with a nonlinear support reaction. (Russian. Russian summary) **94h:35143**
Kharibegashvili, S. S. A multidimensional problem for higher-order strictly hyperbolic equations. (Russian. English and Georgian summaries) **94m:35177**
— On the correct formulation of one multidimensional problem for strictly hyperbolic equations of higher order. (English and Georgian summaries) **94m:35178**
Lasiecka, Irena (*with* Triggiani, Roberto) Sharp trace estimates of solutions of Kirchhoff and Euler-Bernoulli equations. (English summary) **94h:35144**
Tang, Xian Jiang Singular oblique derivative problems for higher-order wave equations. (Chinese. English and Chinese summaries) **94b:35162**
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Lorenz, Michael (*with* Smaiel, Yasser Al) Reflection of branching asymptotics for hyperbolic problems. **94a:35019**
Ôaku, Toshinori Boundary value problem for Fuchsian partial differential equations and reflection of singularities. **94e:35011**
Rogovchenko, S. P. (*with* Rogovchenko, Yu. V.) Periodic solutions of a weakly nonlinear hyperbolic impulse system. (Russian. Russian summary) **94c:35020**
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Yamaguchi, Masaru (*with* Imai, Ichirō) Nonexistence of bounded solutions of some linear evolution equation with periodic forcing term. (English summary) **94d:35013**

35L40 General theory of hyperbolic systems of first-order PDE

Ayoubi, I. S. The Riemann-Green function and the invariant imbedding equations for hyperbolic systems of first-order. (English summary) **94j:35100**
Bampi, Franco (*with* Zordan, Clara) Evanescent waves and discontinuities. (English summary) **94e:35084**
— (*with* Zordan, Clara) Constrained hyperbolicity and discontinuity waves. (English summary) **94m:35179**
Bogoyavlenskiĭ, O. I. Existence of Riemann invariants and Hamiltonian structures. (English summary) **94i:35114**
Fusco, D. (*with* Manganaro, N.) Reduction techniques for a class of nonlinear models of interest in wave propagation. (English summary) **94g:35136**
Gourdin, Daniel (*with* Muñoz, Enrique) Conditions de Levi pour des systèmes aux dérivées partielles semi-linéaires. (English and French summaries) [Levi conditions for semilinear partial differential systems] **94h:35145**
LeVeque, Randall J. (*with* Wang, Jing Hua) A linear hyperbolic system with stiff source terms. (English summary) **94k:35179**
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Carbonaro, P. Exceptional 2×2 quasilinear hyperbolic systems. (English summary) **94k:35183**
Enander, Rickard Improved implicit residual smoothing for steady state computations of first-order hyperbolic systems. (English summary) **94e:65097**
Fusco, D. (*with* Manganaro, N.) Reduction procedures for a class of rate-type materials. (English summary) **94k:35184**
Gourdin, Daniel Systèmes quasi linéaires hyperboliques non symétrisables. [Nonsymmetrizable hyperbolic quasilinear systems] **94i:35117**
Hattori, Harumi Nonlinear stability of rarefaction waves for a viscoelastic material with memory. **94f:73043**
Kong, De Xing *see* **Li, Da Qian; et al., 94h:35149**
Li, Da Qian (*with* Zhou, Yi; Kong, De Xing) Dégénérescence linéaire faible et solutions régulières globales pour les systèmes hyperboliques quasi linéaires d'ordre 1. (English and French summaries) [Weak linear degeneracy and global classical solutions for first-order quasilinear hyperbolic systems] **94h:35149**
Manganaro, N. *see* **Fusco, D., 94k:35184**
Nizhnik, L. P. (*with* Tarasov, V. G.) A multidimensional inverse scattering problem for a system of first-order partial differential equations. (Russian. Russian summary) **94d:35125**
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Sablé-Tougeron, Monique Méthode de Glimm et problème mixte. (English and French summaries) [Glimm method and mixed problem] **94k:35192**
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Thornhill, C. K. Real and apparent invariants in the transformation of the equations governing wave-motion in the general flow of a general fluid. (English summary) **94i:76067**
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35L45 Initial value problems for hyperbolic systems of first-order PDE

Freistühler, Heinrich Separation of linear and nonlinear modes in a hyperbolic system describing electrophoresis. **94k:35180**

Gilquin, Hervé (*with* Laurens, Jérôme; Rosier, Carole) Multi-dimensional Riemann problems for linear hyperbolic systems. I. (English summary) **94m:35180a**
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Lin, Long Wei (*with* Yang, Tong) Existence and nonexistence of global continuous solutions to Riemann problem for damped p-system. (English summary) **94d:35095**
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Tan, De Chun (*with* Zhang, Tong) Global smooth solutions to Cauchy problems for multidimensional quasilinear hyperbolic systems. **94f:35081**
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Yu, Yue Nian Striated solutions of quasilinear hyperbolic two speed systems. (English summary) **94d:35096**
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Człapiński, Tomasz (*with* Kamont, Zdzisław) Generalized solutions of quasi-linear hyperbolic systems of partial differential-functional equations. **94b:35288**
Esteban, Juan R. (*with* Marcati, Pierangelo) Approximate solutions to first and second order quasilinear evolution equations via nonlinear viscosity. **94f:35007**
Hieber, Matthias An operator-theoretical approach to Dirac's equation on L^p-spaces. **94c:47097**
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Lin, Long Wei (*with* Yang, Tong) Convergence of the viscosity method for the systems of isentropic gas dynamics in Lagrangian coordinates. **94b:76041**
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Piriou, Alain Symbole principal de la solution du problème de Cauchy semi-linéaire à donnée initiale conormale. (English and French summaries) [Principal symbol for the solution of the semilinear Cauchy problem with conormal initial data] **94d:35177**
Suzuki, Fukuzo *see* **Taniguchi, Masaru, 94j:35099**
Taniguchi, Masaru (*with* Suzuki, Fukuzo) Initial-boundary value problem for the wave equation in a domain with a corner. **94j:35099**
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35L50 Boundary value problems for hyperbolic systems of first-order PDE

Beirão da Veiga, Hugo Perturbation theorems for linear hyperbolic mixed problems and applications to the compressible Euler equations. (English summary) **94d:35097**
Bézard, Max Problème aux limites pour le système de Vlasov-Maxwell. [Boundary value problem for the Vlasov-Maxwell system] **94i:35115**
Guo, Yan Global weak solutions of the Vlasov-Maxwell system with boundary conditions. (English summary) **94c:35117**
Zhou, Yi Goursat problem for reducible quasi-linear hyperbolic systems. (English summary) **94h:35147**

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Chiu, Chichia Optimal one-stage and two-stage schemes for steady state solutions of hyperbolic equations. (English summary) **94f:65078**
Eljendy, A. Some remarks on the exact controllability of hyperbolic systems with mixed boundary conditions. (English summary) **94a:93007**
Jiang, Jie *see* **Wang, Jun Yu; et al., 94k:35340**
Lü, Xian Rui *see* **Wang, Jun Yu; et al., 94k:35340**
Schaeffer, David G. (*with* Shearer, Michael) Unloading near a shear band: a free boundary problem for the wave equation. **94i:35203**
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Fushchich, V. I. (*with* Zhdanov, R. Z.; Revenko, I. V.) On the general solution of the d'Alembert equation with nonlinear eikonal constraint. (English summary) **94j:35095**
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Hai, Wen Hua (*with* Liu, Chang Lin; Long, Ai Liang) The Bäcklund transformation of a class of nonlinear wave equations. (Chinese. English and Chinese summaries) **94i:35009**
Hale, Jack K. (*with* Raugel, Geneviève) Attractors and convergence of PDE on thin L-shaped domains. **94m:35158**
Haraux, Alain (*with* Poláčik, Peter) Convergence to a positive equilibrium for some nonlinear evolution equations in a ball. **94b:35047**
Hayashi, Nakao Global existence of small radially symmetric solutions to quadratic nonlinear evolution equations in an exterior domain. **94m:35003**
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Joly, J.-L. (*with* Métivier, G.; Rauch, Jeffrey) On the profiles of nonlinear geometric optics. **94g:35139**
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Klainerman, Sergiu (*with* Machedon, M.) Space-time estimates for null forms and the local existence theorem. **94h:35137**
Koch, Herbert Small periodic solutions of quasilinear hyperbolic equations. (English summary) (*see* **94e:00020**)
Kolesov, A. Yu. Parametric oscillations of solutions of the telegraph equation with moderately small diffusion. (Russian. Russian summary) **94h:35019**
Krejčí, Pavel Asymptotic stability of periodic solutions to the wave equation with hysteresis. (English summary) **94g:35017**
Kubota, Kôji (*with* Mochizuki, Kiyoshi) On small data scattering for 2-dimensional semilinear wave equations. **94d:35124**
Kuzin, I. A. On equations with noncompact indefinite operators. (Russian. Russian

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Leis, Rolf Initial value problems in elasticity. **94b:35282**

Li, Shu Jie (*with* Szulkin, Andrzej) Periodic solutions of an asymptotically linear wave equation. **94i:35016**

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Long, Ai Liang *see* **Hai, Wen Hua; et al., 94i:35009**

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Mustonen, Vesa Mappings of monotone type: theory and applications. **94b:47068**

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Okoniewski, Wojciech (*with* Szajkowski, Jan) Existence of solution of the Goursat problem for random partial functional-differential equations of hyperbolic type. (English summary) **94c:35177**

Pakdemirli, Mehmet A comparison of two perturbation methods for vibrations of systems with quadratic and cubic nonlinearities. **94m:73039**

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Raugel, Geneviève *see* **Hale, Jack K., 94m:35158**

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Repeta, V. K. Symmetry properties of one nonlinear wave equation. (English summary) **94i:35011**

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Romano, Manfredi *see* **Choi, Yung Sze; et al., 94k:35019**

Rozanova, O. S. A sufficient condition for the loss of smoothness by solutions of a system of equations for a model of thin atmosphere. (Russian. Russian summary) **94b:35229**

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Segur, Harvey *see* **Chow, C. C.; et al., 94g:35201**

Semerdzhieva, Rositsa I. On the uniqueness of regular solutions of a boundary value problem for nonlinear degenerating hyperbolic equations. **94k:35203**

Sigal, I. M. Nonlinear wave and Schrödinger equations. I. Instability of periodic and quasiperiodic solutions. (English summary) **94d:35012**

Song, Shou Gen Solutions and a global attractor for a class of model long wave equations. (Chinese. English and Chinese summaries) **94k:35163**

Straburzyński, Jan A multivalued Goursat problem for functional-differential equations of neutral type. **94m:35325**

Stuart, David M. A. Perturbation theory for kinks. (English summary) **94a:35101**

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Tanaka, Kazunaga Multiple periodic solutions of a superlinear forced wave equation. (English summary) **94b:35031**

Terjéki, József Periodic solutions of second order damped wave equations. (English summary) **94i:35017**

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Tucsnak, Marius Boundary stabilization for the stretched string equation. (English summary) **94d:93123**

Vârsan, C. Bounded solutions for controlled hyperbolic systems. (English summary) **94d:93020**

Vishik, M. I. *see* **Chepyzhov, V. V., 94k:35128**

Wang, Han Kun (*with* Elcrat, Alan R.) Boundary control of weakly nonlinear wave equations with an application to galloping of transmission lines. (English summary) **94e:93043**

Wang, Shan Qin Weak solutions to mixed problems for a class of nonlinear hyperbolic equations. (Chinese. English and Chinese summaries) **94d:35007**

Wayne, C. Eugene *see* **Craig, Walter, 94m:35023**

Yang, Ling E The blow-up property of a system of damped nonlinear equations with nonlinear boundary constraints. (Chinese. English and Chinese summaries) **94b:35053**

Zhang, Jian Instability of the initial-boundary value problem for semilinear wave equations. (Chinese. English and Chinese summaries) **94i:35111**

Zhdanov, R. Z. *see* **Fushchich, V. I.; et al., 94j:35095**

Zhestkov, S. V. Coefficient conditions for the existence of ω-periodic solutions of quasilinear wave systems. (Russian. Russian summary) **94c:35021**

Zuazua, Enrike Exact controllability for semilinear wave equations in one space dimension. (English and French summaries) **94d:93022**

35L75 Nonlinear hyperbolic PDE of higher (> 2) order

D'Ancona, Piero (*with* Spagnolo, Sergio) A class of nonlinear hyperbolic problems with global solutions. **94m:35202**

Gourdin, Daniel (*with* Muñoz, Enrique) Solutions C^∞ de systèmes hyperboliques quasi linéaires. (English and French summaries) [C^∞ solutions for quasilinear hyperbolic systems] **94d:35111**

Muñoz, Enrique *see* **Gourdin, Daniel, 94d:35111**

Spagnolo, Sergio *see* **D'Ancona, Piero, 94m:35202**

Wang, Ya Guang Reflection of transversal progressing waves for semilinear strictly hyperbolic systems. (English summary) **94k:35200**

Items with secondary classifications in 35L75

Aliev, Fakhraddin Abbas oglu On an analogue of S. I. Pokhozhaev's identity for nonlinear hyperbolic equations. (Russian. English and Azerbaijani summaries) **94d:35104**

Gourdin, Daniel Problème de Cauchy pour les opérateurs de la forme $D_t^p u = f(x,t,\int_a^b |D_x^q D_t^r u|^2\,dx)$ avec $q+r \le p$, $r<p$. Extensions du problème. (English summary) [Cauchy problem for operators of the form $D_t^p u = f(x,t,\int_a^b |D_x^q D_t^r u|^2\,dx)$, with $q+r \le p$, $r<p$. Extensions of the problem] **94h:35171**

— Problèmes de Cauchy et de Goursat pour certaines équations non linéaires. (English and French summaries) [Cauchy and Goursat problems for some nonlinear partial differential equations] **94d:35156**

Kiguradze, T. I. On a boundary value problem for quasilinear hyperbolic systems. (Russian) **94h:35162**

Koch, Herbert (*with* Stahel, Andreas) Global existence of classical solutions to the dynamical von Kármán equations. (English summary) **94i:73033**

Linares, Felipe Global existence of small solutions for a generalized Boussinesq equation. **94k:35262**

Pakdemirli, Mehmet A comparison of two perturbation methods for vibrations of systems with quadratic and cubic nonlinearities. **94m:73039**

Stahel, Andreas *see* **Koch, Herbert, 94i:73033**

Visintin, Augusto Hysteresis and semigroups. (English summary) **94f:47097**

35L80 Hyperbolic PDE of degenerate type

Crippa, Helvécio Rubens On local solutions of some mildly degenerate hyperbolic equations. **94k:35201**

Gourdin, Daniel Problème de Cauchy pour les opérateurs de la forme $D_t^p u = f(x,t,\int_a^b |D_x^q D_t^r u|^2\,dx)$ avec $q+r \le p$, $r<p$. Extensions du problème. (English summary) [Cauchy problem for operators of the form $D_t^p u = f(x,t,\int_a^b |D_x^q D_t^r u|^2\,dx)$, with $q+r \le p$, $r<p$. Extensions of the problem] **94h:35171**

Gvazava, D. K. On the Cauchy initial value problem for a quasilinear degenerate hyperbolic equation. (Russian) **94k:35202**

Jian, Su Wen A class of weak hyperbolic equations with singular coefficients. (Chinese. Chinese summary) **94b:35183**

Ohya, Yujiro A remark on the Cauchy problem of nonstrict hyperbolicity. **94h:35172**

Qu, Chang Zheng Uniqueness in the Cauchy problem for a class of doubly characteristic equations. (Chinese. English and Chinese summaries) **94b:35184**

Sazonov, Yu. A. On the uniqueness of the classical solution of a mixed problem for a second-order singular hyperbolic equation. (Russian) **94m:35203**

Semerdzhieva, Rositsa I. On the uniqueness of regular solutions of a boundary value problem for nonlinear degenerating hyperbolic equations. **94k:35203**

Tang, Xian Jiang Mixed problems for second-order degenerate hyperbolic equations with a singular oblique derivative. (Chinese. Chinese summary) **94b:35185**

Zhang, Jian An initial-boundary value problem for a degenerate hyperbolic equation. (Chinese. English and Chinese summaries) **94h:35173**

Zhang, Peng The Goursat problem for a class of multidimensional equations of nonprincipal type. (Chinese. English and Chinese summaries) **94k:35204**

Zhou, Bao Xi On the pseudohyperbolic system with degenerate terms of higher order. (English and Chinese summaries) **94k:35205**

Items with secondary classifications in 35L80

Amirat, Youcef (*with* Hamdache, Kamel; Ziani, Abdelhamid) Homogenization of degenerate wave equations with periodic coefficients. (English summary) **94g:35022**

Bitsadze, A. V. On a hyperbolic system of first-order quasilinear equations. (Russian) **94b:35166**

Chen, Zong Rong The relationship between differentiability of solutions to a class of weak hyperbolic equations with singular coefficients and their lower-order terms. (Chinese. English and Chinese summaries) **94h:35025**

Dzhuraev, A. D. ★ Degenerate and other problems. (English summary) **94j:35058**

Egorov, Yurii Vladimirovich Sur un example d'équation linéaire hyperbolique n'ayant pas de solution. [Example of an unsolvable hyperbolic linear equation] **94b:35157**

Gvazava, J. ★ Hiperboluri da shereuli tipis gantolebat'a zogierT'i k'lasi. (Georgian. Georgian summary) [Some classes of hyperbolic equations and equations of mixed type] **94k:35001**

Hamdache, Kamel *see* **Amirat, Youcef; et al., 94g:35022**

Jian, Su Wen Differentiability and asymptotic behavior of solutions to a class of weakly hyperbolic equations with singular coefficients. (Chinese. English and Chinese summaries) **94m:35038**

Lu, Yun Guang The global Hölder-continuous solution of isentropic gas dynamics. (English summary) **94d:35101**

Ôaku, Toshinori Boundary value problem for Fuchsian partial differential equations and reflection of singularities. **94e:35011**

Petrini, M. (*with* Sordoni, V.) Propagation of singularities for hyperbolic operators with double characteristics. (English summary) **94h:35141**

Popivanov, N. I. (*with* Schneider, Manfred Friedrich) The Darboux problems in $\mathbf{R}^3$ for a class of degenerating hyperbolic equations. (English summary) **94f:35078**

Repin, O. A. ★ Краевые задачи со смещением для уравнений гиперболического и смешанного типов. (Russian. Russian summary) [Boundary value problems with shift for equations of hyperbolic and mixed type] **94m:35209**

— A nonlocal boundary value problem for the Euler-Darboux-Poisson equation that is degenerate in the interior of the domain. (Russian. Russian summary) **94b:35200**

Samoilova, N. A. Investigation of the generalized solvability of a mixed problem for a hyperbolic-parabolic equation. (Russian) **94f:35029**

Schneider, Manfred Friedrich *see* **Popivanov, N. I., 94f:35078**

Sordoni, V. Necessary and sufficient conditions for the well posedness of the Cauchy problem for a class of hyperbolic operators with high variable multiplicity. **94h:35140**

— *see also* **Petrini, M., 94h:35141**

Ziani, Abdelhamid *see* **Amirat, Youcef; et al., 94g:35022**

35L85 Unilateral problems; variational inequalities for hyperbolic PDE [see also 35R35, 49J40]

Amerio, Luigi Unilateral problems for vibrating strings or membranes. **94j:35108**

Jarušek, J. (*with* Málek, Josef; Nečas, Jindřich; Šverák, Vladimír) Variational inequality for a viscous drum vibrating in the presence of an obstacle. (English and Italian summaries) **94f:35089**
Málek, Josef *see* **Jarušek, J.; et al., 94f:35089**
Nečas, Jindřich *see* **Jarušek, J.; et al., 94f:35089**
Šverák, Vladimír *see* **Jarušek, J.; et al., 94f:35089**

Items with secondary classifications in 35L85

Lévi, Laurent Équations quasi linéaires du premier ordre avec contrainte unilatérale. (English and French summaries) [First-order quasilinear equations with unilateral constraint] **94k:35189**

35L99 None of the above, but in this section

Donat, Rosa Studies on error propagation for certain nonlinear approximations to hyperbolic equations: discontinuities in derivatives. (English summary) **94m:35204**

Items with secondary classifications in 35L99

Chen, Zong Rong (*with* Lei, Kai Quan) The blow-up properties of solutions to pseudohyperbolic equations. (Chinese. English and Chinese summaries) **94d:35018**
Durmagambetov, A. A. (*with* Dzhandigulov, A. R.) Fundamental solution of an ultrahyperbolic operator. (Russian. English, Russian and Kazakh summaries) **94k:35063**
Dzhandigulov, A. R. *see* **Durmagambetov, A. A., 94k:35063**
(Gommerstadt, Boris) *see* **Naumkin, P. I., 94m:35230**
Kozhanov, A. I. An analogue of the maximum principle for third-order pseudohyperbolic equations. (Russian) (*see* **94i:35001**)
Lei, Kai Quan *see* **Chen, Zong Rong, 94d:35018**
Moodie, T. Bryant *see* **Öncü, T. Sabri, 94m:73050**
Naumkin, P. I. (*with* Shishmarëv, I. A.) ★ Nonlinear nonlocal equations in the theory of waves. (English summary) **94m:35230**
Öncü, T. Sabri (*with* Moodie, T. Bryant) Asymptotic analysis of a hyperbolic mixed problem in one-dimensional viscoelasticity. (English summary) **94m:73050**
Romanov, V. G. On the well-posedness of inverse problems with the data support located at the domain boundary. (English summary) **94k:35329**
Shishmarëv, I. A. *see* **Naumkin, P. I., 94m:35230**
Tian, Ying Hui The blow-up properties of generalized nonlinear pseudoparabolic and pseudohyperbolic equations. (Chinese. English and Chinese summaries) **94j:35092**

35Mxx Partial differential equations of special type (mixed, composite, etc.) {For degenerate types, see 35J70, 35K65, 35L80.}

35M10 PDE of mixed type

Agoshkov, V. I. Some imbedding theorems and the solvability of the system of hyperbolic-parabolic equations. (English summary) **94d:35112**
Airapetyan, R. G. Fundamental solution of a model mixed problem with a boundary that is non-strictly concave with respect to the bicharacteristics. (Russian. English, Russian and Armenian summaries) **94k:35206**
Baisugurov, B. A. (*with* Bazarbekov, Ak. B.) A criterion for strong solvability of the Tricomi problem for an equation of mixed type of the second kind. (Kazakh. English, Russian and Kazakh summaries) **94i:35129**
Bazarbekov, Ak. B. *see* **Baisugurov, B. A., 94i:35129**
Berdyshev, A. S. (*with* Sadybekov, M. A.) An analogue of a nonlocal boundary value problem for a parabolic-hyperbolic equation in a domain with deviation from the characteristic. (Russian. English and Uzbek summaries) **94i:35130**
Decarreau, A. (*with* Rakotoson, J.-M.) Nonlinear elliptic-parabolic equations with L^1-data. (English summary) **94g:35154**
Dzhamalov, S. Z. On the well-posedness of nonlocal boundary value problems for a multidimensional equation of mixed type. (Russian) **94i:35131**
Dzhuraev, T. D. (*with* Kadyrov, R. R.; Mirsagatov, Sh. Sh.) A nonlocal boundary value problem for equations of mixed type. (Russian. English and Uzbek summaries) **94m:35205**
Ebihara, Yukiyoshi (*with* Kitada, Toshiyuki; Kurokiba, Masaki) Local solutions of quasilinear hyperbolic-elliptic equations. I. Dirichlet problems. **94k:35207**
— (*with* Kitada, Toshiyuki; Kurokiba, Masaki) Local solutions of quasilinear hyperbolic-elliptic equations. II. Neumann problems. **94k:35208**
Egisbaev, N. O. (*with* Sadybekov, M. A.) On a problem conjugate to the generalized Tricomi problem for the Lavrent'ev-Bitsadze equation. (Russian. Russian summary) **94k:35209**
Erzhanov, N. E. *see* **Kal'menov, T. Sh.; et al., 94j:35109**
Hale, Jack K. (*with* Perissinotto, Anízio, Jr.) Global attractor and convergence for one-dimensional semilinear thermoelasticity. (English summary) **94c:35131**
Isyangil'din, A. Kh. *see* **Sabitov, K. B., 94a:35081**
Kadyrov, R. R. *see* **Dzhuraev, T. D.; et al., 94m:35205**
Kal'menov, T. Sh. (*with* Sadybekov, M. A.; Erzhanov, N. E.) A criterion for the strong solvability of the Tricomi problem for the Lavrent'ev-Bitsadze equation. The general case. (Russian. Russian summary) **94j:35109**
Kapustin, N. Yu. Uniqueness of the solution of the Frankl' problem, and some problems in the theory of generalized analytic functions. (Russian. Russian summary) **94j:35110**
Karatopraklieva, M. G. A regular solution of a nonlocal boundary value problem for an equation of mixed type. **94m:35206**
Karimov, Sh. T. Problems of Bitsadze-Samarskiĭ type for an equation of mixed type with a nonsmooth line of degeneracy. (Russian. English and Uzbek summaries) **94k:35210**
Kitada, Toshiyuki *see* **Ebihara, Yukiyoshi; et al., 94k:35207** *and* **94k:35208**
Krasil'nikov, M. G. Reduction to the usual Tricomi problem of one of its generalizations for the Lavrent'ev-Bitsadze system. (Russian) **94k:35211**
Kurokiba, Masaki *see* **Ebihara, Yukiyoshi; et al., 94k:35207** *and* **94k:35208**
Maciel, A. B. On hyperbolic-parabolic equation with a continuous nonlinearity. **94f:35090**
Malovichko, V. A. Nonlocal boundary value problems for a system of fourth-order differential equations. (Russian. Russian summary) **94d:35113**
Mamedov, Ya. N. On the eigenvalue problem for equations of mixed type. (Russian. Russian summary) **94k:35212**
Mirsagatov, Sh. Sh. *see* **Dzhuraev, T. D.; et al., 94m:35205**
Moiseev, E. I. Some boundary value problems for equations of mixed type. (Russian. Russian summary) **94m:35207**
— Solvability of a boundary value problem by means of the spectral method. (Russian. Russian summary) **94j:35111**
Nečas, Jindřich ★ Écoulements de fluide: compacité par entropie. (French) [Fluid flow: compactness with respect to entropy] **94m:35208**
Ovezova, M. M. On the uniqueness of the regular solution of the Tricomi problem for a system of equations of mixed elliptic-hyperbolic type. (Russian) **94d:35114**
Perissinotto, Anízio, Jr. *see* **Hale, Jack K., 94c:35131**
Rakotoson, J.-M. *see* **Decarreau, A., 94g:35154**
Rassias, John Michael On the well-posed Tricomi problem in $\mathbf{R}^2$. (English summary) **94d:35115**
Repin, O. A. ★ Краевые задачи со смещением для уравнений гиперболического и смешанного типов. (Russian. Russian summary) [Boundary value problems with shift for equations of hyperbolic and mixed type] **94m:35209**
— A nonlocal boundary value problem for a parabolic-hyperbolic equation with a characteristic line of change of type. (Russian. Russian summary) **94i:35132**
Sabitov, K. B. On the existence of a solution to the Tricomi problem. (Russian. Russian summary) **94e:35097**
— (*with* Isyangil'din, A. Kh.) A Tricomi-type problem with a nonlocal conjugation condition for an equation of mixed type. (Russian) **94a:35081**
— An alternating method of Schwartz type in the theory of equations of mixed type. (Russian) **94a:35082**
Sadybekov, M. A. (*with* Tolzhanova, G. D.) Spectral properties of a class of boundary value problems for a parabolic-hyperbolic equation. (Russian. Russian summary) **94i:35133**
— *see also* **Berdyshev, A. S., 94i:35130**; **Kal'menov, T. Sh.; et al., 94j:35109** *and* **Egisbaev, N. O., 94k:35209**
Scholl, A. On the nonlinear Tricomi problem. (English summary) **94m:35210**
Sorokin, A. S. The Tricomi problem for a multiply connected domain. (Russian) **94f:35091**
Sun, He Sheng First order system of equations of mixed type and second order equation of mixed type. (English summary) **94f:35092**
— On the second-order equations of mixed type of first kind. (English summary) **94h:35174**
— Nonlinear system of equations of mixed type. (English summary) **94h:35175**
Tolzhanova, G. D. *see* **Sadybekov, M. A., 94i:35133**
Urinov, A. K. On the uniqueness of the solution of some problems of Bitsadze-Samarskiĭ type for equations of mixed type. (Russian. English and Uzbek summaries) **94i:35134**
— On the uniqueness of the solution of some problems for the Lavrent'ev-Bitsadze equation with a complex spectral parameter. II. (Russian. English and Uzbek summaries) **94m:35211**
Zakharov, V. N. A proof of the uniqueness of the solution of a generalization of the Gellerstedt problem for the Karol' equation. (Russian) **94h:35176**

Items with secondary classifications in 35M10

Abduvalieva, G. K. (*with* Sushko, V. G.) Asymptotic representations with respect to a small parameter of solutions of the Tricomi problem for some singularly perturbed equations of elliptic-parabolic type. (Russian. Russian summary) **94m:35044**
Aziz, A. K. (*with* Peszek, Robert) Existence of weak solutions for semilinear elliptic-parabolic equations by a monotone iteration scheme. **94c:35050**
Fan, Haitao One-phase Riemann problem and wave interactions in systems of conservation laws of mixed type. (English summary) **94f:35082**
Gafka, D. Fourier series with Legendre polynomials as solving functions of mixed multi-periodic boundary value problems. (English summary) **94g:42041**
Guseinov, A. M. *see* **Tagiev, F. A., (94c:65006)**
Gvazava, J. ★ Hiperboluri da shereuli tipis gantolebat'a zogiert'i k'lasi. (Georgian. Georgian summary) [Some classes of hyperbolic equations and equations of mixed type] **94k:35001**
Han, Yong Qian (*with* Sun, He Sheng) The periodic boundary problem and the initial value problem for a nonlinear system of equations of changing type. (English summary) **94m:35063**
Jian, Huai Yu Uniqueness results for nonlinear elliptic-parabolic partial differential equations. (Chinese. English and Chinese summaries) **94m:35145**
Kushner, A. G. Normal Chaplygin and Kel'dysh forms of the Monge-Ampère equations of variable type. (Russian. Russian summary) **94a:35008**
Lü, De A class of boundary value problems for second-order elliptic equations of mixed type. (Chinese. English and Chinese summaries) **94a:35036**
Misawa, Masashi A Harnack inequality for solutions of difference differential equations of elliptic-parabolic type. **94h:35256**
Moiseev, E. I. Regular solvability of a nonclassical boundary value problem. (Russian. Russian summary) **94m:35065**
Orynbasarov, E. M. *see* **Sadybekov, M. A., 94d:35119**
Peszek, Robert *see* **Aziz, A. K., 94c:35050**
Sadybekov, M. A. (*with* Orynbasarov, E. M.) The basis property of a system of root functions for a boundary value problem with shift for the Lavrent'ev-Bitsadze equation. (Russian) **94d:35119**
Salimov, R. B. (*with* Strezhneva, E. V.) On a solution of an inverse mixed boundary value problem. (Russian) **94m:30079**
Samoilova, N. A. Investigation of the generalized solvability of a mixed problem for a hyperbolic-parabolic equation. (Russian) **94f:35029**
Strezhneva, E. V. *see* **Salimov, R. B., 94m:30079**
Sun, He Sheng *see* **Han, Yong Qian, 94m:35063**
Sushko, V. G. *see* **Abduvalieva, G. K., 94m:35044**
Tagiev, F. A. (*with* Guseinov, A. M.) On the numerical solution of a Tricomi-type problem for an equation with two lines of degeneracy with continuous coefficients. (Russian) (*see* **94c:65006**)

Yanov, S. I. On the existence of a solution, periodic in t, of the first exterior mixed problems for the S. L. Sobolev system. (Russian. English and Russian summaries) **94m:35024**
Zhiboedova, T. V. Finite-dimensional approximations of the solution of an equation of mixed type. (Russian. Russian summary) (*see* **94i:00010**)

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Andryan, A. A. On the theory of boundary value problems for systems of composite type with lowest terms. (Russian. Russian summary) **94f:35093**
Boimatov, K. Kh. A system of equations of composite type defined in a multidimensional domain. (Russian) **94d:35116**
Krutitskiĭ, P. A. Solution of a hyperbolic boundary value problem as a result of applying the limit amplitude principle to an initial-boundary value problem for an equation of composite type. (Russian) **94b:35186**
— Explicit solution of the Dirichlet problem for an equation of composite type in a multiply connected domain. (Russian) **94d:35117**
Liu, Yun Kang (*with* Wu, Zi Qian[1]) Boundary value problems for composite type systems of second order partial differential equations. (English summary) **94f:35094**
Malovichko, V. A. Solvability of nonlocal boundary value problems for systems of third-order differential equations of composite type. (Russian) **94f:35095**
Mukhyev, B. Boundary value problems for an equation of composite type with growing nonlinearities. (Russian) **94i:35135**
Shaigardanov, Yu. Z. On the asymptotic behavior of the solution to a boundary value problem for an equation of composite type. (Russian) (*see* **94c:35003**)
Wu, Zi Qian[1] *see* **Liu, Yun Kang, 94f:35094**
Zikirov, O. S. Boundary value problems for an equation of composite type. (Russian) **94g:35155**

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Abdurakhmanov, R. General representations of solutions of some equations of composite type in generalized functions. (Russian. Tajiki summary) **94g:35044**
Do Duc Hung (*with* Gawinecki, Jerzy) Global existence of solution to the initial value problem for nonlinear hyperbolic heat equation. (English summary) **94c:35006**
Gawinecki, Jerzy *see* **Do Duc Hung, 94c:35006**
Gilbert, Robert P. (*with* Wen, Guo Chun) Integral and boundary value problems for nonlinear systems of composite type. (English summary) **94k:35068**
Kozhanov, A. I. ★ Краевые задачи для уравнений математической физики нечетного порядка. (Russian. Russian summary) [Boundary value problems for odd-order equations of mathematical physics] **94a:35001**
— On the stabilization as $t \to \infty$ of the solutions of a class of third-order nonlinear equations. (Russian) **94g:35026**
Lill, Georg Exact and approximate boundary conditions at artificial boundaries. (English summary) **94h:35014**
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Franchi, Bruno (*with* Kutev, Nikolai D.; Polidoro, Sergio) Nontrivial solutions for Monge-Ampère type operators in convex domains. (English summary) **94d:35045**
Galazyuk, V. A. (*with* Turchin, Ĭ. M.) Application of the Chebyshev-Laguerre polynomial method to the solution of initial-boundary value problems with mixed boundary conditions for the telegraph equation. (Ukrainian. English and Russian summaries) **94c:35047**
Gripenberg, Gustaf Global existence of solutions of Volterra integrodifferential equations of parabolic type. (English summary) **94e:45007**
Kutev, Nikolai D. *see* **Franchi, Bruno; et al., 94d:35045**
Polidoro, Sergio *see* **Franchi, Bruno; et al., 94d:35045**
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35Nxx Overdetermined systems [see also 58G05, 58G07, 58Hxx]

35N05 Overdetermined systems with constant coefficients

Alessandrini, Giovanni (*with* Magnanini, Rolando) Symmetry and nonsymmetry for the overdetermined Stekloff eigenvalue problem. (English summary) **94k:35213**
Ehrenpreis, Leon Extensions of solutions of partial differential equations. **94d:35118**
Magnanini, Rolando *see* **Alessandrini, Giovanni, 94k:35213**
Sakhaev, Sh. Solvability of an overdetermined elliptic system. (Russian. English, Russian and Kazakh summaries) **94j:35112**

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Dzhuraev, A. D. ★ Degenerate and other problems. (English summary) **94j:35058**
Garofalo, Nicola (*with* Segàla, Fausto) Asymptotic expansions for a class of Fourier integrals and applications to the Pompeiu problem. **94i:35052**
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Yamamoto, Masahiro Conditional stability in determination of force terms of heat equations in a rectangle. (English summary) **94h:35271**

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Dzhuraev, A. D. On properties of first order overdetermined elliptic system. (English summary) **94f:35096**
Hayashi, Yasuo Compatibility conditions and the manifold of solutions of some nonlinear Cauchy-Riemann system in several complex variables. (English summary) **94m:35212**
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DeTurck, Dennis (*with* Goldschmidt, Hubert; Talvacchia, Janet) Existence of connections with prescribed Yang-Mills currents. **94c:53037**
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Goldschmidt, Hubert *see* **DeTurck, Dennis; et al., 94c:53037**
Porru, Giovanni (*with* Zeleke, Aklilu) An overdetermined problem in nonlinear elliptic equations of second order. (English summary) **94h:35063**
Talvacchia, Janet *see* **DeTurck, Dennis; et al., 94c:53037**
Zeleke, Aklilu *see* **Porru, Giovanni, 94h:35063**
Zhuravlëv, I. V. Homeomorphic solution of a multidimensional analogue of the Beltrami equation. (Russian. English and Russian summaries) **94k:32024**

35N15 $\overline{\partial}$-Neumann problem and generalizations; formal complexes [see also 32F20 and 58G05]

Chen, Tian Ping (*with* Zhang, De Zhi) Local L^p estimate for the solution of $\overline{\partial}$-Neumann problem over $D_t = \{(w, z)\colon \operatorname{Re} w \le |z^m - tw|^2/m\}$. (English summary) **94k:35214**
Derridj, Makhlouf (*with* Tartakoff, David S.) Local analyticity for the $\overline{\partial}$-Neumann problem in completely decoupled pseudoconvex domains. (English summary) **94f:35097**
Tartakoff, David S. *see* **Derridj, Makhlouf, 94f:35097**
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Aragona, Jorge Some results for the $\overline{\partial}$ operator on generalized differential forms. **94k:32021**
Bell, Steven R. Unique continuation theorems for the $\overline{\partial}$-operator and applications. (English summary) **94d:32020**
Berhanu, S. (*with* Chanillo, Sagun) Hölder and L^p estimates for a local solution of $\overline{\partial}_b$ at top degree. (English summary) **94f:32035**
Capogna, Luca (*with* Danielli, Donatella; Garofalo, Nicola) An embedding theorem and the Harnack inequality for nonlinear subelliptic equations. **94j:35038**
Chanillo, Sagun *see* **Berhanu, S., 94f:32035**
Chaumat, Jacques (*with* Chollet, Anne-Marie) Noyaux pour résoudre l'equation $\overline{\partial}$ dans des classes ultradifférentiables sur des compacts irreguliérs de $\mathbf{C}^n$. [Kernels for solving the $\overline{\partial}$ equation in ultradifferentiability classes on irregular compact sets in $\mathbf{C}^n$] **94b:32018**
Chen, Zhenhua Local real analytic boundary regularity of the $\overline{\partial}$-equation on convex domains. **94g:32021**
— (*with* Ma, Dao Wei) Sharp L^p estimates for the $\overline{\partial}_b$-equation on the boundaries of real ellipsoids in $\mathbf{C}^n$. (English summary) **94m:32023**
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Christ, Michael Remarks on the breakdown of analyticity for $\overline{\partial}_b$ and Szegő kernels. **94k:32028**
Danielli, Donatella *see* **Capogna, Luca; et al., 94j:35038**
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— (*with* Tartakoff, David S.) Global analyticity for $\Box_b$ on three-dimensional pseudoconvex CR manifolds. **94i:32021**
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Garofalo, Nicola *see* **Capogna, Luca; et al., 94j:35038**
Konopel'chenko, B. G. ★ Solitons in multidimensions. **94m:35254**
Krantz, Steven G. ★ Geometric analysis and function spaces. **94g:32001**
Lieb, Ingo (*with* Range, R. Michael) The $\overline{\partial}$-Neumann kernel for codimension-one forms on strictly pseudoconvex domains. **94d:32021**
Lu, Qi Keng The Poisson formula for harmonic $(1, 0)$-forms in a ball of $\mathbf{C}^n$. **94k:32023**
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Soraggi, Roberto Luiz The symmetric anti-linear component of the derivative of the canonical solution of the $\overline{\partial}$-operator. (English summary) **94j:32013**
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Tugores Martorell, Francisco L^1- and L^∞-estimates with a local weight for the $\overline{\partial}$-equation on convex domains in $\mathbf{C}^n$. (English summary) **94b:32021**
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Verdera, Joan On the uniform approximation problem for the square of the Cauchy-Riemann operator. (English summary) **94d:30070**

35Pxx Spectral theory and eigenvalue problems for partial differential operators [see also 47Axx, 47Bxx, 47F05]

DeSanto, John A. ★ Scalar wave theory. (English summary) **94g:35156**

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35P05 General spectral theory of PDE

Agranovskiĭ, M. L. On the stability of the spectrum in the Pompeiu problem. (English summary) **94m:35213**

Alimov, Sh. A. Spectral expansions of distributions. (Russian) **94j:35113**

Antonets, M. A. Initial-boundary value problems for evolution equations with a transmission condition on an unbounded surface. (Russian) **94k:35215**

Baxley, J. V. (*with* Chapman, R. O.) A criterion for discrete spectra of partial differential operators. **94b:35188**

Bogatyrev, A. B. On spectra of pairs of Poincaré-Steklov operators. (English summary) **94m:35214**

Brown, K. J. (*with* Tertikas, A.) The existence of principal eigenvalues for problems with indefinite weight function on $\mathbf{R}^k$. (English summary) **94i:35136**

Canino, Annamaria (*with* Perri, Umile) Eigenvalues of the p-Laplace operator with respect to two obstacles. (English and Italian summaries) **94k:35216**

Chapman, R. O. *see* **Baxley, J. V., 94b:35188**

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Davydov, A. B. On the study of a second-order elliptic differential operator on a manifold without boundary with turning points. (Russian) **94f:35098**

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Edward, Julian Pre-compactness of isospectral sets for the Neumann operator on planar domains. (English summary) **94h:35177**

Gadyl'shin, R. R. Splitting of a multiple eigenvalue of the Dirichlet problem for the Laplace operator under singular perturbation of the boundary condition. (Russian) **94c:35132**

— Splitting the poles of the Helmholtz resonator. (Russian. Russian summary) **94m:35215**

Huang, Ming Chieh Spectral properties of second order elliptic differential operators. (English summary) **94h:35178**

Jakšić, Vojkan On the spectrum of the Neumann Laplacian of long-range horns: a note on the Davies-Simon theorem. **94h:35179**

Kutovoĭ, V. A. On the spectrum of the third boundary value problem for the Laplace equation in a half-space. (Russian. Russian summary) **94c:35133**

Levitan, B. M. The wave equation method in the spectral theory of selfadjoint differential operators. **94m:35216**

Minkin, A. M. An estimate for the resolvent of the Laplace operator. (Russian) (*see* **93m:00022**)

Nier, Francis Schrödinger-Poisson systems in dimension $d \leq 3$: the whole-space case. (English summary) **94m:35217**

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Podlipenko, Yu. K. On the structure of the spectrum of the Laplace operator in a layer with bounded cavities. (Russian. Russian summary) **94h:35180**

— On the spectrum of an operator that corresponds to a boundary value problem of diffraction in a wedge. (Russian. English and Ukrainian summaries) **94h:35181**

Rother, Wolfgang[1] A linear eigenvalue problem with indefinite weight function. **94f:35099**

Schmidt, Karl Michael On the essential spectrum of Dirac operators with spherically symmetric potentials. **94j:35114**

Schreieck, Gabriele (*with* Voigt, Jürgen) Stability of the L_p-spectrum of Schrödinger operators with form-small negative part of the potential. **94i:35137**

Shen, Chao Liang On the nodal sets of the eigenfunctions of certain homogeneous and nonhomogeneous membranes. (English summary) **94i:35138**

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Adachi, Toshiaki (*with* Sunada, Toshikazu) Density of states in spectral geometry. **94k:58149**

Antoniou, Ioannis E. (*with* Levitan, J.; Horwitz, L. P.) Time dependence and intrinsic irreversibility of the Pietenpol model. (English summary) **94k:81059**

Babich, V. M. (*with* Buldyrev, V. S.) ★ Short-wavelength diffraction theory. **94f:78004**

Baker, Garth A. (*with* Canright, Geoff S.; Mulay, Shashikant B.; Sundberg, Carl) On the spectral problem for anyons. (English summary) **94d:81037**

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Bonnet, Anne-Sophie (*with* Joly, Patrick) Mathematical analysis of guided water waves. (English summary) **94i:35166**

Boutet de Monvel-Berthier, Anne-Marie (*with* Georgescu, Vladimir; Mantoiu, Marius) Locally smooth operators and the limiting absorption principle for N-body Hamiltonians. (English summary) **94a:47118**

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Cheng, Jin[2] The interior transmission problem for two-dimensional Schrödinger equations. (English summary) **94i:35055**

Dauge, Monique (*with* Helffer, Bernard) Eigenvalues variation. II. Multidimensional problems. **94j:47098**

Dittrich, J. (*with* Inozemtsev, V. I.) On the structure of eigenvectors of the multidimensional Lamé operator. (English summary) **94f:81017**

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Egorov, Yurii Vladimirovich Sur des estimations des valeurs propres d'opérateurs elliptiques. [On estimates of the eigenvalues of elliptic operators] **94i:35141**

Evans, W. D. (*with* Lewis, Roger T.; Saitō, Yoshimi) Zhislin's theorem revisited. **94f:81184**

Gaveau, Bernard (*with* Okada, Masami; Okada, Tatsuya) Explicit heat kernels on graphs and spectral analysis. (English summary) **94c:58210**

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Gimadislamov, M. G. On the discreteness of the spectrum of the equation $Au = \lambda Bu$, where A and B are hypoelliptic operators. (Russian) **94i:35051**

Grigis, Alain (*with* Mohamed, Abdérémane) Finitude des lacunes dans le spectre de l'opérateur de Schrödinger et de celui de Dirac avec des potentiels électrique et magnétique périodiques. [Finiteness of the gaps in the spectra of the Schrödinger and Dirac operators with periodic electric and magnetic potentials] **94j:81042**

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Jäger, Willi (*with* Oleĭnik, O. A.; Shamaev, A. S.) On the averaging problem for the Laplace equation in a partially perforated domain. (Russian) **94m:35072**

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Kerdelhué, Philippe Spectre de l'opérateur de Schrödinger magnétique avec symétrie d'ordre six. (English and French summaries) [Spectrum of the magnetic Schrödinger operator with sixfold symmetry] **94c:81031**

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Lupo, Daniela (*with* Micheletti, A. M.) On multiple eigenvalues of selfadjoint compact operators. **94e:47031**

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Nayatani, Shin (*with* Urakawa, Hajime) Spectrum of the Schrödinger operator on a complete manifold. (English summary) **94h:58174**

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Nussbaum, Roger D. (*with* Pinchover, Yehuda) On variational principles for the generalized principal eigenvalue of second order elliptic operators and some applications. **94h:35049**

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Ozawa, Shin (*with* Roppongi, Susumu) Singular variation of domain and spectra of the Laplacian with small Robin conditional boundary. II. **94c:35024**

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Prüss, Jan (*with* Sohr, Hermann) Imaginary powers of elliptic second order differential operators in L^p-spaces. **94d:47051**

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Sadybekov, M. A. (*with* Toĭzhanova, G. D.) Spectral properties of a class of boundary value problems for a parabolic-hyperbolic equation. (Russian. Russian summary) **94i:35133**

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Salmanova, D. G. Solution of a mixed problem for a second-order nonlinear hyperbolic equation in an unbounded domain. (Russian) **94g:35151**

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Serov, V. S. Estimates for the resolvent of the Laplace operator in the entire space. (Russian. Russian summary) **94b:47062**

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Shubin, M. A. Spectral theory of elliptic operators on noncompact manifolds. (English summary) **94h:58175**

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Vladimirov, V. S. Spectral properties of p-adic pseudodifferential operators of Schrödinger type. (Russian. Russian summary) **94a:47088**

35P10 Completeness of eigenfunctions, eigenfunction expansions for PDO

Aliev, I. V. On the basis property of a system of eigen- and associated functions of multipoint problems for differential equations. (Russian. Russian summary) **94c:35134**

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Kon, Mark A. Summation of eigenfunction expansions. **94a:35083**

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Serov, V. S. Absolute convergence of spectral expansions of operators with a singularity. (Russian. Russian summary) **94k:35220**

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Birman, M. Sh. (*with* Solomyak, M. Z.) Discrete negative spectrum under nonregular perturbations (polyharmonic operators, Schroedinger operators with a magnetic field, periodic operators). (*see* **94e:81005**)

Gadyl'shin, R. R. On merging poles of an acoustic resonator. (Russian) **94b:35079**

Hoffmann-Ostenhof, M. (*with* Hoffmann-Ostenhof, T.) Bounds on the order of vanishing of eigenfunctions of Schrödinger operators. (English summary) (*see* **94e:81005**)

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Iskhokov, S. A. The distribution of eigenvalues of some classes of nonselfadjoint elliptic systems of differential operators in unbounded domains. (Russian) **94j:47071**

Kauffman, Robert M. Finite eigenfunction approximations for continuous spectrum operators. (English summary) **94e:47030**

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Scheel, Arnd Fast travelling waves for the Cahn-Hillard [Hilliard] equation in an infinite strip. (English and French summaries) **94g:35089**
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Sternin, B. Yu. *see* **Nazaĭkinskiĭ, V. E.; et al., 94m:46121**
Struwe, Michael Une estimation asymptotique pour le modèle de Ginzburg-Landau. (English and French summaries) [An asymptotic estimate for the Ginzburg-Landau model] **94k:35043**
Uèrdian, Zh. A. *see* **Maslennikova, V. N., 94a:76019**
Vallet, Guy Mathematical modelisation of the phase change heat transfer in an emulsion. (English summary) **94k:80007**
Walkington, Noel J. *see* **Kinderlehrer, David; et al., 94a:58036**
Wollman, Stephen Global-in-time solutions to the three-dimensional Vlasov-Poisson system. **94e:82112**
Xu, Xiang Sheng Existence and uniqueness for the nonstationary problem of the electrical heating of a conductor due to the Joule-Thomson effect. (English summary) **94a:35003**
Zabreiko, P. P. *see* **Bainov, Drumi Dimitrov; et al., 94a:34083**
Zhang, Ke Wei[1] *see* **Chabrowski, Jan, 94m:49054**

35Rxx Miscellaneous topics involving partial differential equations {For equations on manifolds, see 58Gxx; for manifolds of solutions, see 58Bxx; for stochastic PDEs, see also 60H15.}

35R05 PDE with discontinuous coefficients or data

Bramanti, Marco (*with* Cerutti, M. Cristina) $W_p^{1,2}$ solvability for the Cauchy-Dirichlet problem for parabolic equations with VMO coefficients. **94j:35180**
Cerutti, M. Cristina *see* **Bramanti, Marco, 94j:35180**

Items with secondary classifications in 35R05

Alaa, Nour Eddine (*with* Pierre, Michel) Weak solutions of some quasilinear elliptic equations with data measures. (English summary) **94g:35091**
Berger, Fabienne (*with* Colombeau, Jean-François; Moussaoui, Mohand) Solutions mesures de Dirac de systèmes de lois de conservation et applications numériques. (English and French summaries) [Dirac measure solutions of systems of conservation laws and numerical applications] **94e:35088**
Bottaro, Gianfranco (*with* Oppezzi, Pirro) Elliptic equations in divergence form, with right-hand side a measure, on unbounded domains. (Italian. English summary) **94d:35035**
Canfora, Albino On a class of elliptic equations with non-VMO coefficients. (Italian. English summary) **94m:35084**
Carl, Siegfried (*with* Heikkilä, Seppo) Extremal solutions of quasilinear parabolic boundary value problems with discontinuous nonlinearities. (English summary) **94m:35139**
Cerutti, M. Cristina (*with* Escauriaza, Luis; Fabes, Eugene B.) Uniqueness in the Dirichlet problem for some elliptic operators with discontinuous coefficients. (English summary) **94d:35034**
Colombeau, Jean-François *see* **Berger, Fabienne; et al., 94e:35088**
Dairbekov, N. S. Removable singularities of solutions of first-order elliptic systems with nonregular coefficients. (Russian. English and Russian summaries) **94d:35041**
Dall'Aglio, Andrea (*with* Orsina, Luigi) Existence results for some nonlinear parabolic equations with nonregular data. (English summary) **94f:35068**
Escauriaza, Luis *see* **Cerutti, M. Cristina; et al., 94d:35034**
Fabes, Eugene B. *see* **Cerutti, M. Cristina; et al., 94d:35034**
Fefferman, Robert A. Large perturbations of elliptic operators and the solvability of the L^p Dirichlet problem. (English summary) **94k:35082**
Heikkilä, Seppo *see* **Carl, Siegfried, 94m:35139**
Illner, Reinhard (*with* Tie, Jinghzi) On directed diffusion with measurable background. (English summary) **94j:35061**
Kilpeläinen, Tero (*with* Malý, Jan) Degenerate elliptic equations with measure data and nonlinear potentials. **94c:35091**
Kushnir, R. M. (*with* Lopushans'ka, G. P.) On an approach to the construction of a solution to the generalized conjugation problem. (Ukrainian. Ukrainian summary) **94g:35108**
Lopushans'ka, G. P. *see* **Kushnir, R. M., 94g:35108**
Lubyshev, F. V. Approximation and regularization of problems of the optimal control of the coefficients of parabolic equations. (Russian. Russian summary) **94h:49056**
Luo, Nan Chen A Stefan-type free boundary problem with discontinuous coefficients. (Chinese. English and Chinese summaries) **94b:35310**
Malý, Jan *see* **Kilpeläinen, Tero, 94c:35091**
Moussaoui, Mohand *see* **Berger, Fabienne; et al., 94e:35088**
Oppezzi, Pirro *see* **Bottaro, Gianfranco, 94d:35035**
Orsina, Luigi *see* **Dall'Aglio, Andrea, 94f:35068**
Pierre, Michel *see* **Alaa, Nour Eddine, 94g:35091**
Raitums, Uldis On the approximation of solutions of parabolic equations with discontinuous nonlinearities. (Russian. Russian summary) **94f:35057**
Tie, Jinghzi *see* **Illner, Reinhard, 94j:35061**
Vitanza, Carmela $W^{2,p}$-regularity for a class of elliptic second order equations with discontinuous coefficients. (English summary) **94d:35039**
Wang, Ya Guang The semilinear wave equation with data strongly singular at one point. (Italian summary) **94b:35182**

35R10 Partial functional-differential or differential-difference equations, with or without deviating arguments

Baskakov, A. G. (*with* Chan Khyu Bong) Spectral properties of bounded solutions of linear functional-differential equations. (Russian) **94d:35153**
Brzychczy, Stanisław Existence of solution of the nonlinear Dirichlet problem for differential-functional equations of elliptic type. (English summary) **94h:35254**
Chan Khyu Bong *see* **Baskakov, A. G., 94d:35153**
Cui, Bao Tong Oscillation properties for parabolic equations of neutral type. (English summary) **94i:35188**
Człapiński, Tomasz (*with* Kamont, Zdzisław) Generalized solutions of quasi-linear hyperbolic systems of partial differential-functional equations. **94b:35288**
Erbe, Lynn H. (*with* Kong, Qing Kai; Zhang, Bing Gen) Oscillation of partial differential equations with deviating arguments. (English summary) **94d:35154**

Friesecke, Gero Convergence to equilibrium for delay-diffusion equations with small delay. (English summary) **94c:35162**
Gopalsamy, K. Oscillations in parabolic neutral systems. (English summary) **94d:35155**
— (*with* He, Xue Zhong; Sun, Da Qing) Oscillations and convergence in a diffusive delay logistic equation. (English summary) **94j:35181**
Gourdin, Daniel Problèmes de Cauchy et de Goursat pour certaines équations non linéaires. (English and French summaries) [Cauchy and Goursat problems for some nonlinear partial differential equations] **94d:35156**
Hale, Jack K. (*with* Ladeira, Luiz A. C.) Differentiability with respect to delays for a retarded reaction-diffusion equation. **94c:35163**
He, Xue Zhong *see* **Gopalsamy, K.; et al., 94j:35181**
Kamont, Zdzisław (*with* Topolski, K.) Mixed problems for quasilinear hyperbolic differential-functional systems. (English summary) **94d:35157**
— Iterative methods for hyperbolic differential-functional problems. (English summary) **94j:35182**
— *see also* **Człapiński, Tomasz, 94b:35288**
Kečkić, Jovan D. On a linear functional-differential equation. (English summary) **94c:35164**
Kong, Qing Kai *see* **Erbe, Lynn H.; et al., 94d:35154**
Kusano, Takaši (*with* Yoshida, Norio) Oscillation of parabolic equations with oscillating coefficients. **94m:35300**
Ladeira, Luiz A. C. *see* **Hale, Jack K., 94c:35163**
Memory, Margaret C. Invariant manifolds for partial functional-differential equations. **94g:35214**
Mikushin, N. V. On an analogue, discrete with respect to the time variable, of a general boundary value problem for partial differential equations in a half-space. (Russian. Russian summary) **94h:35255**
Misawa, Masashi A Harnack inequality for solutions of difference differential equations of elliptic-parabolic type. **94h:35256**
Sun, Da Qing *see* **Gopalsamy, K.; et al., 94j:35181**
Topolski, K. *see* **Kamont, Zdzisław, 94d:35157**
Weng, Pei Xuan On oscillation of systems of partial functional-differential equations. (English summary) **94m:35301**
Yoshida, Norio Forced oscillations of parabolic equations with deviating arguments. **94b:35289**
— On the zeros of solutions of hyperbolic equations with deviating arguments. **94j:35183**
— *see also* **Kusano, Takaši, 94m:35300**
Zhang, Bing Gen *see* **Erbe, Lynn H.; et al., 94d:35154**
Zvyagin, V. G. On a certain method for the investigation of the initial-boundary value problems for parabolic equations with integral perturbations of retarded type. (Russian summary) (*see* **94m:00017**)

Items with secondary classifications in 35R10

Bainov, Drumi Dimitrov (*with* Domshlak, Yu. I.) On the oscillatory properties of the solutions of partial differential-difference equations. (English summary) **94m:35016**
Capel, H. W. *see* **Quispel, G. R. W.; et al., 94b:39017**
Chen, Zhen Tao Oscillation of solutions to a class of nonlinear parabolic differential equations with delay. (Chinese. English and Chinese summaries) **94i:35013**
Cui, Bao Tong *see* **Lalli, Bikkar S.; et al., 94b:35023**
Domshlak, Yu. I. *see* **Bainov, Drumi Dimitrov, 94m:35016**
Garroni, Maria Giovanna (*with* Menaldi, José-Luis) Maximum principles in unbounded domains for integro-differential parabolic operators. **94k:35051**
Gopalsamy, K. (*with* Weng, Pei Xuan) Global attractivity and "level crossings" in a periodic partial integrodifferential equation. (English summary) **94a:45020**
Győri, István (*with* Krisztin, T.) Oscillation results for linear autonomous partial delay differential equations. **94d:34078**
Inoue, Atsushi A tiny step towards a theory of functional derivative equations—a strong solution of the space-time Hopf equation. (English summary) **94d:35158**
Jeong, Jin-Mun Retarded functional-differential equations with L^1-valued controller. **94h:93012**
— (*with* Nakagiri, Shin-ichi; Tanabe, Hiroki) Structural operators and semigroups associated with functional-differential equations in Hilbert spaces. **94i:34155**
Kamenskii, G. A. (*with* Skubachevskii, A. L.) ★ Линейные краевые задачи для дифференциально-разностных уравнений. (Russian. Russian summary) [Linear boundary value problems for differential-difference equations] **94c:34098**
Khuzyatov, Sh. Sh. *see* **Sirazetdinov, T. K., 94m:35030**
Krejčí, Pavel Asymptotic stability of periodic solutions to the wave equation with hysteresis. (English summary) **94g:35017**
Krisztin, T. *see* **Győri, István, 94d:34078**
Kuzin, I. A. On equations with noncompact indefinite operators. (Russian. Russian summary) **94f:47079**
Lalli, Bikkar S. (*with* Yu, Yuan Hong; Cui, Bao Tong) Oscillation of hyperbolic equations with functional arguments. **94b:35023**
Leszczyński, Henryk On the existence and uniqueness of weak solutions of the Cauchy problem for weakly coupled systems of nonlinear partial differential-functional equations of the first order. (Italian summary) **94e:35046**
Luo, Qi *see* **Xie, Sheng Li, 94j:93063**
Menaldi, José-Luis *see* **Garroni, Maria Giovanna, 94k:35051**
Nakagiri, Shin-ichi *see* **Jeong, Jin-Mun; et al., 94i:34155**
Okoniewski, Wojciech (*with* Szajkowski, Jan) Existence of solution of the Goursat problem for random partial functional-differential equations of hyperbolic type. (English summary) **94c:35177**
Quispel, G. R. W. (*with* Capel, H. W.; Sahadevan, R.) Continuous symmetries of differential-difference equations: the Kac-van Moerbeke equation and Painlevé reduction. (English summary) **94b:39017**
Razgulin, A. V. Stability of bifurcating self-oscillations in a nonlinear parabolic problem with a shifted argument. (Russian. Russian summary) **94k:35037**
Sahadevan, R. *see* **Quispel, G. R. W.; et al., 94b:39017**
Sirazetdinov, T. K. (*with* Khuzyatov, Sh. Sh.) On the stability of systems with distributed parameters with retarded argument. (Russian. Russian summary) **94m:35030**
Skóra, Lidia Systems of differential-functional inequalities of first order in arbitrary domains. **94a:35119**
Skubachevskii, A. L. *see* **Kamenskii, G. A., 94c:34098**
Straburzyński, Jan A multivalued Goursat problem for functional-differential equations of neutral type. **94m:35325**
Szajkowski, Jan *see* **Okoniewski, Wojciech, 94c:35177**
Tanabe, Hiroki *see* **Jeong, Jin-Mun; et al., 94i:34155**
Tian, Da Gang Periodic solutions to semilinear parabolic functional-differential equations. (Chinese. English and Chinese summaries) **94e:35022**
Tramov, M. I. Oscillatory properties of linear differential equations with deviating argument. (Russian) **94f:34144**
Weng, Pei Xuan *see* **Gopalsamy, K., 94a:45020**
Wiener, Joseph ★ Generalized solutions of functional-differential equations. **94m:34174**
Xie, Sheng Li (*with* Luo, Qi) Sector stability of the steady state of an m-dimensional Lotka-Volterra delay ecological model with diffusion. (Chinese. English and Chinese summaries) **94j:93063**
Yu, Yuan Hong *see* **Lalli, Bikkar S.; et al., 94b:35023**

35R15 Partial differential equations on infinite-dimensional (e.g. function) spaces (= PDE in infinitely many variables) [see also 46Gxx, 58D25]

Bendikov, A. D. Uniformly elliptic operators on an infinite-dimensional torus. (English and French summaries) **94b:35290**
Cichocka, Anna Characteristic Hopf functionals connected with some nonlinear differential equation. **94i:35189a**
— (*with* Cichocki, Tadeusz) On the Hopf functional of a certain semilinear partial differential equation. (English summary) **94i:35189b**
Cichocki, Tadeusz *see* **Cichocka, Anna, 94i:35189b**
Daletskii, A. Yu. Infinite-dimensional Schrödinger equations and the representation of the group of symplectic morphisms of a Hilbert phase space. (Russian) **94e:35137**
Inoue, Atsushi A tiny step towards a theory of functional derivative equations—a strong solution of the space-time Hopf equation. (English summary) **94d:35158**
Koval'chik, I. M. On a class of linear differential equations in functional derivatives. (Ukrainian. English and Russian summaries) **94k:35319**

Items with secondary classifications in 35R15

Anosov, V. P. Coercive solvability of abstract parabolic equations. (Russian) **94f:34114**
Arosio, A. (*with* Natalini, R.; Panizzi, S.; Paoli, M. G.) Fourth order evolution equations. (English summary) (*see* **94e:00020**)
Blázquez, C. Miguel (*with* Tuma, E.) A modulus of stability for the Šil'nikov theorem. **94e:34066**
Bogachev, V. I. (*with* Röckner, Michael) Hypoellipticity and invariant measures of infinite-dimensional diffusions. (English and French summaries) **94m:60130**
Cannarsa, Piermarco (*with* Da Prato, Giuseppe) Direct solution of a second order Hamilton-Jacobi equation in Hilbert spaces. **94h:49051**
Da Prato, Giuseppe *see* **Cannarsa, Piermarco, 94h:49051**
Goldstein, Jerome A. (*with* deLaubenfels, Ralph; Sandefur, James T., Jr.) Regularized semigroups, iterated Cauchy problems and equipartition of energy. (English summary) **94g:47050**
Hale, Jack K. (*with* Raugel, Geneviève) Attractors for dissipative evolutionary equations. **94g:34103**
Khrennikov, A. Yu. The Feynman-Kac formula on a phase superspace. I. (Russian. Russian summary) **94d:58022**
— The Feynman-Kac formula on a phase superspace. II. (Russian. Russian summary) **94d:58023**
deLaubenfels, Ralph *see* **Goldstein, Jerome A.; et al., 94g:47050**
Malliavin, Paul Infinite-dimensional analysis. **94a:60083**
Natalini, R. *see* **Arosio, A.; et al., (94e:00020)**
Nazarov, V. I. Solvability of differential equations in scales of Banach spaces. (Russian. English and Russian summaries) **94e:34062**
Nicaise, Serge Stable asymptotics for differential equations in a Hilbert space and applications to boundary value problems in domains with conical points. **94m:34150**
Panizzi, S. *see* **Arosio, A.; et al., (94e:00020)**
Paoli, M. G. *see* **Arosio, A.; et al., (94e:00020)**
Raugel, Geneviève *see* **Hale, Jack K., 94g:34103**
Röckner, Michael *see* **Bogachev, V. I., 94m:60130**
Sandefur, James T., Jr. *see* **Goldstein, Jerome A.; et al., 94g:47050**
Tuma, E. *see* **Blázquez, C. Miguel, 94e:34066**
Üstünel, Ali Süleyman A new class of stochastic partial differential equations on the Wiener space. **94e:60056**

35R20 Partial operator-differential equations (i.e. PDE on finite-dimensional spaces for abstract space valued functions) [see also 34Gxx, 47A50, 47D03, 47D06, 47D09, 47H15, 47H20]

Aslanov, G. I. Solvability and asymptotic behavior of solutions of differential equations in a Hilbert space. (Russian. English and Azerbaijani summaries) **94f:35142**
Bugajewski, Dariusz (*with* Szufla, Stanisław) Kneser's theorem for weak solutions of the Darboux problem in Banach spaces. **94a:35108**
Cook, John D. (*with* Showalter, R. E.) Distributed systems of PDE in Hilbert space. (English summary) **94i:35190**
Goldstein, Jerome A. The Kompaneets equation. **94i:35191**
Ishii, Hitoshi Viscosity solutions of nonlinear second-order partial differential equations in Hilbert spaces. **94h:35257**
Kitagawa, Keiichiro Principe de Duhamel et problèmes de Cauchy uniformément bien posés. [Duhamel principle and uniformly well-posed Cauchy problems] **94m:35302**

Lesmes Camacho, Jaime Dissipative equations: absorbing sets and attractors. (Spanish. Spanish summary) **94j:35184**
Showalter, R. E. *see* **Cook, John D., 94i:35190**
Ströhmer, Gerhard An existence result for partially regular weak solutions of certain abstract evolution equations, with an application to magnetohydrodynamics. **94m:35303**
Szufla, Stanisław *see* **Bugajewski, Dariusz, 94a:35108**

Items with secondary classifications in 35R20

Antonyuk, A. Val. (*with* Antonyuk, A. Vikt.) Smoothing properties of semigroups for Dirichlet operators of Gibbs measures. (English summary) **94h:47090**
Antonyuk, A. Vikt. *see* **Antonyuk, A. Val., 94h:47090**
Arendt, Wolfgang Sobolev imbeddings and integrated semigroups. **94a:47068**
Autret, L. (*with* Emamirad, Hassan) Entire propagator. **94f:47093**
Belonosov, V. S. The second Lyapunov method for abstract parabolic equations and its applications to partial differential equations. (Russian. Russian summary) **94c:34089**
D'Ancona, Piero (*with* Spagnolo, Sergio) On an abstract weakly hyperbolic equation modelling the nonlinear vibrating string. **94b:34086**
El-Sayed, A. M. A. A mixed problem for a second order Sturm-Liouville equation. (English summary) **94c:35094**
Emamirad, Hassan *see* **Autret, L., 94f:47093**
Emel'anova, E. V. (*with* Vasil'ev, V. V.) The coercive solvability of abstract parabolic equations in Banach spaces. (*see* **94f:00025**)
Favini, Angelo (*with* Lasiecka, Irena) Second order abstract equations with nonlinear boundary conditions: applications to a von Kármán system with boundary damping. **94j:34065**
Gasymov, M. G. (*with* Mirzoev, S. S.) Solvability of boundary value problems for second-order operator-differential equations of elliptic type. (Russian. Russian summary) **94k:34110**
Gorbachuk, V. I. On the solution of an operator-differential equation with singularities. (Ukrainian. Ukrainian summary) **94d:34063**
Hieber, Matthias On the L^p theory of systems of linear partial differential equations. **94m:35135**
Huang, Hai Yang A class of causal operators and differential equations with causal operators. (Chinese. English and Chinese summaries) **94m:34213**
Larionov, E. A. Differential equations of hyperbolic type. (Russian. Russian summary) **94m:47127**
Lasiecka, Irena *see* **Favini, Angelo, 94j:34065**
Mabrouk, Mongi Sur un problème d'évolution à données mesures; approche variationnelle. (English and French summaries) [On an evolution problem with measure data; variational approach] **94k:35143**
Maz'ya, V. G. Solvability and asymptotic behavior of solutions of ordinary differential equations with operator coefficients. (English summary) (*see* **94b:00036**)
Merenkov, Yu. N. On the investigation of the stability of evolution equations by means of Lyapunov functionals. (Russian. Russian summary) **94j:34067**
Mirzoev, S. S. *see* **Gasymov, M. G., 94k:34110**
Muñoz Rivera, Jaime E. Smoothness effect and decay on a class of nonlinear evolution equation. (English and French summaries) **94d:35109**
Nishihara, Kenji Decay properties of solutions of some quasilinear hyperbolic equations with strong damping. **94k:35198**
Papageorgiou, Nikolaos S. Existence of solutions for hyperbolic differential inclusions in Banach spaces. (English summary) **94h:35283**
— Existence of solutions for hyperbolic differential inclusions in Banach spaces. (English summary) **94h:35284**
Picard, Rainer H. Evolution equations as space-time operator equations. **94b:34083**
Rakotoson, J.-M. A compactness lemma for quasilinear problems: application to parabolic equations. **94a:35067**
Robinson, James C. Inertial manifolds and the cone condition. (English summary) **94i:34133**
Sklyar, A. Ya. Well-posedness of the Cauchy problem for three-term higher-order operator-differential equations. (Russian. English and Ukrainian summaries) **94j:34063**
Spagnolo, Sergio *see* **D'Ancona, Piero, 94b:34086**
Sviridyuk, G. A. Quasistationary trajectories of semilinear dynamical equations of Sobolev type. (Russian. Russian summary) **94g:34109**
Tarasov, R. P. A quadratic root of a selfadjoint operator, and the Cauchy problem for elliptic-type equations. (Russian. Russian summary) **94j:47072**
Vasil'ev, V. V. *see* **Emel'anova, E. V., (94f:00025)**
Yunusov, M. Yu. Some boundary value problems that contain a small parameter. (Russian) **94k:34115**

35R25 Improperly posed problems for PDE

Alessandrini, Giovanni Stability for the crack determination problem. **94j:35185**
Barashkov, A. S. An estimate for the accuracy of the solution of an inverse problem without using a uniqueness theorem. (Russian. Russian summary) **94d:35159**
Bektasov, A. Sh. *see* **Temirbulatov, S. I., 94m:35304**
Dinh Nho Hào A noncharacteristic Cauchy problem for linear parabolic equations. II. A variational method. (English summary) **94c:35165**
— A noncharacteristic Cauchy problem for linear parabolic equations. III. A variational method and its approximation schemes. (English summary) **94c:35166**
Dyukova, M. V. (*with* Tkachëv, D. L.) Examples of ill-posedness in a mixed problem for the wave equation in nonsmooth domains. (Russian. Russian summary) **94e:35138**
Golik, Wojciech Continuous dependence of solutions of inverse boundary value problems in one-dimensional heat conduction. (English summary) **94b:35291**
Karepov, O. V. (*with* Tarkhanov, N. N.) The Fischer-Riesz equations method in the ill-posed Cauchy problem for systems with injective symbols. (English summary) **94j:35186**
Lin, Chang Hao (*with* Payne, L. E.) On the spatial decay of ill-posed parabolic problems. (English summary) **94c:35167**
Maslov, V. P. Resonance-ill-posed problems and their regularization. (Russian. Russian summary) **94h:35258a**
— Vortex ill-posedness of the equations of an ideal gas and its regularization. (Russian. Russian summary) **94h:35258b**
Payne, L. E. *see* **Lin, Chang Hao, 94c:35167**
Reinhardt, Hans-Jürgen (*with* Seiffarth, Frank) On the approximate solution of ill-posed Cauchy problems for parabolic differential equations. **94i:35192**
Seiffarth, Frank *see* **Reinhardt, Hans-Jürgen, 94i:35192**
Tarkhanov, N. N. *see* **Karepov, O. V., 94j:35186**
Temirbulatov, S. I. (*with* Bektasov, A. Sh.) An ill-posed problem for a second-order parabolic system. (Russian. English, Russian and Kazakh summaries) **94m:35304**
Tkachëv, D. L. *see* **Dyukova, M. V., 94e:35138**

Items with secondary classifications in 35R25

Bukhgeim, A. L. Ill-posed problems, number theory and tomography. (Russian. Russian summary) **94e:44002**
Golichev, I. I. Iterative methods for solving ill-posed boundary value problems. (Russian. Russian summary) **94h:65121**
Groetsch, Charles W. ★ Inverse problems in the mathematical sciences. (English summary) **94m:00008**
Isakov, Victor On uniqueness in inverse problems for semilinear parabolic equations. **94h:35263**
Papi, Gloria On the inverse problem of reconstructing objects from the knowledge of the far-field. (English summary) **94k:78023**
Pozzi, Gianni A. Singular evolution inequalities. **94k:34114**
Schonbek, T. Uniqueness for a nonlinear heat equation. (English summary) **94j:35075**
Suzuki, Fukuzo *see* **Taniguchi, Masaru, 94j:35099**
Taniguchi, Masaru (*with* Suzuki, Fukuzo) Initial-boundary value problem for the wave equation in a domain with a corner. **94j:35099**
Wolff, Thomas H. Some constructions with solutions of variable coefficient elliptic equations. (English summary) **94f:31006**
Yamamoto, Masahiro Conditional stability in determination of force terms of heat equations in a rectangle. (English summary) **94h:35271**

35R30 Inverse problems (undetermined coefficients, etc.) for PDE

Alekseev, G. V. (*with* Chebotarëv, A. Yu.) Nonlinear inverse problems of acoustic potential. (English summary) **94a:35109**
Alessandrini, Giovanni Stable determination of a crack from boundary measurements. (English summary) **94h:35259**
Andrieux, Stéphane (*with* Ben Abda, Amel; Jaoua, Mohamed) Identifiabilité de frontière inaccessible par des mesures de surface. (English and French summaries) [Identifiability of inaccessible boundaries by boundary measurements] **94b:35292**
Anger, Gottfried A measure-theoretic approach for studying inverse problems of the heat equation and the wave equation. (English summary) **94b:35293**
Barceló, Bartolomé (*with* Fabes, Eugene B.; Seo, Jin Keun) The inverse conductivity problem with one measurement: uniqueness for convex polyhedra. (English summary) **94k:35320**
Bazdyreva, M. B. A problem of determining a time-dependent heat conduction coefficient. (Russian. Russian summary) **94g:35215**
Belov, Yu. Ya. An inverse problem for the Burgers equation. (Russian) **94g:35216**
— Inverse problems for parabolic equations. (English summary) **94k:35321**
Ben Abda, Amel *see* **Andrieux, Stéphane; et al., 94b:35292**
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Takahashi, Shuji On global weak solutions of the nonstationary two-phase Navier-Stokes flow. **94m:35243**
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Verdi, Claudio (*with* Paolini, Maurizio; Nochetto, Ricardo H.) Linearization and adaptivity for FBPs. **94k:65133**
Vuik, C. ★ The solution of a one-dimensional Stefan problem. **94h:80006**
Yang, Jian Fu On the existence of steady planar vortices. **94b:35233**

35R45 Partial differential inequalities

Amirov, A. Kh. A boundary value problem for a differential inequality. (Russian. Russian summary) **94e:35156**
— A boundary value problem for a differential inequality. (Russian) **94h:35280**
Byszewski, Ludwik Impulsive nonlocal nonlinear parabolic differential problems. (English summary) **94h:35281**
Dhaigude, D. B. (*with* Kasture, D. Y.) Nonlinear time degenerate parabolic inequalities and applications. (English summary) **94a:35118**
Jaruszewska-Walczak, D. Differential-functional inequalities related to initial-boundary problems for first order partial differential-functional equations. **94f:35158**
Kasture, D. Y. *see* **Dhaigude, D. B., 94a:35118**
Landis, E. M. On the "dead zone" for semilinear degenerate elliptic inequalities. (Russian. Russian summary) **94k:35343**
Skóra, Lidia Systems of differential-functional inequalities of first order in arbitrary domains. **94a:35119**

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Choe, Hi Jun On the regularity of parabolic equations and obstacle problems with quadratic growth nonlinearities. **94b:35134**
Danielli, Donatella *see* **Capogna, Luca; et al., 94b:35075**
Donati-Martin, C. (*with* Pardoux, Étienne) White noise driven SPDEs with reflection. (English summary) **94f:60083**
Garofalo, Nicola *see* **Capogna, Luca; et al., 94b:35075**
Kavian, Otared (*with* Kerkyacharian, Gérard; Roynette, Bernard) Quelques remarques sur l'ultracontractivité. (English and French summaries) [Some remarks about ultracontractivity] **94b:47057**
Kerkyacharian, Gérard *see* **Kavian, Otared; et al., 94b:47057**
Kuo, Hung Ju (*with* Trudinger, N. S.) On the discrete maximum principle for parabolic difference operators. (English and French summaries) **94i:65090**
Norvidas, S. Differential inequalities in Banach spaces of entire functions. II. (Russian. Lithuanian summary) **94c:46048**
Pardoux, Étienne *see* **Donati-Martin, C., 94f:60083**
Redheffer, Raymond M. Nagumo theory without the Nagumo point. (English summary) **94b:35155**
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Wolff, Thomas H. Recent work on sharp estimates in second-order elliptic unique continuation problems. **94j:35031**

35R50 Partial differential equations of infinite order

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35R60 Partial differential equations with randomness [see also 60H15]

Bajpai, S. D. A general solution of a partial differential equation occurring in the Ornstein-Uhlenbeck diffusion process. (English summary)
Capiński, Marek A note on uniqueness of stochastic Navier-Stokes equations. (English summary) **94k:35344**
Chabi, E. (*with* Michaille, G.) Random Dirichlet problem: scalar Darcy's law. (English summary) **94d:35175**
Freidlin, Mark I. Wave front propagation in semi-linear differential equations and systems of KPP-type. **94j:35203**
Klyatskin, V. I. Caustics in random media. (English summary) **94h:35282**
Lachowicz, Mirosław A system of stochastic differential equations modeling the Euler and the Navier-Stokes hydrodynamic equations. (English summary) **94b:35315**
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Okoniewski, Wojciech (*with* Szajkowski, Jan) Existence of solution of the Goursat problem for random partial functional-differential equations of hyperbolic type. (English summary) **94c:35177**
Pastur, L. A. Large time behaviour of moments of solution of parabolic differential equations with random coefficients. **94e:35157**
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Vârsan, C. Approximation of Goursat problem for hyperbolic controlled stochastic differential equations. **94e:35158**
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Xing, Zhen Xiang (*with* Wang, Yong[1]) The stochastic Dirichlet problem for inhomogeneous partial differential equations of parabolic type (1). **94g:35234**
— (*with* Wang, Yong[1]) The stochastic Dirichlet problem for inhomogeneous partial differential equations of parabolic type. II. **94m:35324**

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Berezhkovskii, A. M. *see* **Pollak, Eli, 94h:82050**
Blanchard, Philippe (*with* Hongler, M.-O.) Probabilistic solutions of high order partial differential equations. (English summary) **94f:60079**
Bobrik, R. V. Singular perturbation method for short waves in random media. (English summary) **94k:35022**
Bobrowski, Adam Some remarks on the two-dimensional Dirac equation. **94a:47108**
Bonzani, Ida The time evolution of random fields in stochastic continuum mechanics. (English summary) **94d:82036**
Bricmont, J. (*with* Kupiainen, A.) Renormalization group and nonlinear PDEs. (English summary) (*see* **94m:00033**)
Brzeźniak, Zdzisław (*with* Flandoli, Franco) Regularity of solutions and random evolution operator for stochastic parabolic equations. **94m:60125**
Caraballo Garrido, Tomás (*with* Real Anguas, José) PDE with stochastic perturbations: existence, uniqueness and stability of solutions. **94a:34119**
— (*with* Real Anguas, José) Partial differential equations with delayed random perturbations: existence, uniqueness, and stability of solutions. (English summary) **94i:60070**
Carmona, René A. (*with* Molchanov, S. A.) Parabolic Anderson problem and intermittency. (English summary) **94h:35080**
Donati-Martin, C. (*with* Pardoux, Étienne) White noise driven SPDEs with reflection. (English summary) **94f:60083**
Dynkin, Eugene B. Superprocesses and partial differential equations. (English summary) **94j:60156**
Elshamy, Maged Nonlinear random wave equations. (English summary) **94m:60126**
Flandoli, Franco *see* **Brzeźniak, Zdzisław, 94m:60125**
Gérard, Patrick (*with* Leichtnam, Éric) Ergodic properties of eigenfunctions for the Dirichlet problem. **94i:35146**
Gorostiza, Luis G. (*with* Wakolbinger, Anton) Asymptotic behavior of a reaction-diffusion system. A probabilistic approach. (English summary) **94j:60157**
Gurbatov, S. N. (*with* Saichev, A. I.) The self-similarity of d-dimensional potential turbulence. (English summary) **94m:76059**
Gyöngy, István (*with* Krylov, N. V.) On stochastic partial differential equations with unbounded coefficients. **94d:60097**
— (*with* Pardoux, Étienne) On quasi-linear stochastic partial differential equations. (English summary) **94a:60092**
— (*with* Pardoux, Étienne) On the regularization effect of space-time white noise on quasi-linear parabolic partial differential equations. (English summary) **94j:60123**
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Hu, Ying Probabilistic interpretation of a system of quasilinear elliptic partial differential equations under Neumann boundary conditions. (English summary) **94k:60121**
Ioffe, Dimitri Large deviations for reaction-diffusion equation with rapidly oscillating random noise. **94g:60052**
Kolesnik, A. D. Factorization of infinitesimal operators of Markov random evolutions. (Russian. Russian summary) **94b:60070**
Kotelenez, Peter Positive solutions for a class of stochastic partial differential equations. (English summary) **94g:60114**
Kotulski, Z. Generalized Shapiro-Loginov formula and moment stability of a string equation with random telegraphic parameter. (Russian and Polish summaries) **94a:34082**
Krylov, N. V. *see* **Gyöngy, István, 94d:60097**
Kulizhsky, A. V. (*with* Tinin, M. V.) The scintillation index for a three-dimensional inhomogeneous medium with random large-scale irregularities: an asymptotic approach. (English summary) **94m:35047**
Kupiainen, A. *see* **Bricmont, J., (94m:00033)**
Ladde, G. S. (*with* Sambandham, M.; Sathananthan, S.) Comparison theorem and its applications. (English summary) **94d:45007**

Lang, Reinhard Une représentation probabiliste de la conductivité effective. (English and French summaries) [A representation of effective conductivity in terms of Brownian motion] **94i:35022**
Léandre, Rémi (*with* Russo, Francesco) Small stochastic perturbation of a one-dimensional wave equation. (English summary) **94a:60093**
Leichtnam, Éric *see* **Gérard, Patrick**, **94i:35146**
Malczak, Jan An application of Markov operators in differential and integral equations. **94a:47074**
Malliavin, Paul Infinite-dimensional analysis. **94a:60083**
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Maslowski, Bohdan (*with* Seidler, Jan; Vrkoč, Ivo) Integral continuity and stability for stochastic hyperbolic equations. (English summary) **94b:60071**
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Molchanov, S. A. *see* **Carmona, René A.**, **94h:35080**
Mueller, Carl Coupling and invariant measures for the heat equation with noise. (English summary) **94h:60085**
— A modulus for the 3-dimensional wave equation with noise: dealing with a singular kernel. (English summary) **94m:60127**
— (*with* Sowers, Richard) Blowup for the heat equation with a noise term. (English summary) **94m:60128**
— (*with* Tribe, Roger) A stochastic PDE arising as the limit of a long-range contact process, and its phase transition. (*see* **94m:60002**)
Nagase, Noriaki Note on stochastic partial differential equations. **94d:60099**
Nualart, David *see* **Millet, A.; et al.**, **94a:60099**
Pardoux, Étienne *see* **Gyöngy, István**, **94a:60092**; **Donati-Martin, C.**, **94f:60083** *and* **Gyöngy, István**, **94j:60123**
Pinsky, Ross G. (*with* Scheutzow, Michael) Some remarks and examples concerning the transience and recurrence of random diffusions. (English summary) **94c:60130**
Pollak, Eli (*with* Berezhkovskiĭ, A. M.) Fokker-Planck equation for nonlinear stochastic dynamics in the presence of space and time dependent friction. (English summary) **94h:82050**
Real Anguas, José *see* **Caraballo Garrido, Tomás**, **94a:34119** *and* **94i:60070**
Rudnicki, Ryszard Strangely sweeping one-dimensional diffusion. (English summary) **94c:60131**
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— *see also* **Maslowski, Bohdan; et al.**, **94b:60071**
Simão, Isabel Regular fundamental solution for a parabolic equation on an infinite-dimensional space. (English summary) **94k:60092**
Song, Ren Ming Probabilistic approach to the Dirichlet problem of perturbed stable processes. (English summary) **94g:60144**
Sowers, Richard *see* **Mueller, Carl**, **94m:60128**
Strelkova, N. A. Application of the Vietoris method for solving the Fokker-Planck-Kolmogorov equation in the investigation of a nonlinear system. (Russian) (*see* **94e:70001**)
Tinin, M. V. *see* **Kulizhsky, A. V.**, **94m:35047**
Tribe, Roger *see* **Mueller, Carl**, (**94m:60002**)
Üstünel, Ali Süleyman A new class of stochastic partial differential equations on the Wiener space. **94e:60056**
Vrkoč, Ivo *see* **Maslowski, Bohdan; et al.**, **94b:60071**
Wakolbinger, Anton *see* **Gorostiza, Luis G.**, **94j:60157**
Weits, Ello Convergence of solutions of one-dimensional stochastic heat equations. (English summary) **94g:60117**
Zhou, Xun Yu A class of semilinear stochastic partial differential equations and their controls: existence results. (English summary) **94a:60094**

35R70 PDE with multivalued right-hand sides

Papageorgiou, Nikolaos S. Existence of solutions for hyperbolic differential inclusions in Banach spaces. (English summary) **94h:35283**
— Existence of solutions for hyperbolic differential inclusions in Banach spaces. (English summary) **94h:35284**
Straburzyński, Jan A multivalued Goursat problem for functional-differential equations of neutral type. **94m:35325**

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Castaing, Charles (*with* Trúóng Xuân Dúc Hã; Valadier, Michel) Evolution equations governed by the sweeping process. (English summary) **94m:34035**
Chernorutskii, V. V. *see* **Krasnosel'skiĭ, M. A.; et al.**, **94d:35071**
Hu, Shou Chuan (*with* Papageorgiou, Nikolaos S.) On the existence of periodic solutions for a class of nonlinear evolution inclusions. (Italian summary) **94k:34120**
Krasnosel'skiĭ, M. A. (*with* Pokrovskiĭ, A. V.; Chernorutskiĭ, V. V.; Tronel', Zh.) On the dynamics of controlled systems described by equations of parabolic type with hysteresis nonlinearities. (Russian. Russian summary) **94d:35071**
Makhmudov, È. N. (*with* Pshenichnyĭ, B. N.) An optimality principle for discrete and differential inclusions with distributed parameters of parabolic type, and duality. (Russian. Russian summary) **94i:49039**
Papageorgiou, Nikolaos S. Existence of solutions for boundary value problems of semilinear evolution inclusions. **94c:34093**
— *see also* **Hu, Shou Chuan**, **94k:34120**
Pokrovskiĭ, A. V. *see* **Krasnosel'skiĭ, M. A.; et al.**, **94d:35071**
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Tronel', Zh. *see* **Krasnosel'skiĭ, M. A.; et al.**, **94d:35071**
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Valadier, Michel *see* **Castaing, Charles; et al.**, **94m:34035**

35R99 None of the above, but in this section

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Marinets, V. V. An approach to the construction of approximate solutions for diff ential equations given in implicit form. (Russian. Russian summary) (*see* **94b:34003**)

35Sxx Pseudodifferential operators and other generalizations of partial differential operators [see also 47G30, 58G15]

35S05 General theory of ΨDO

Baev, A. D. An analogue of the Gårding inequality for a class of weighted pseudodifferential operators. (Russian) **94i:35207**
Cancelier, Claudy (*with* Chemin, Jean-Yves; Xu, Chao Jiang) Calcul de Weyl et opérateurs sous-elliptiques. (English and French summaries) [The Weyl calculus and subelliptic operators] **94j:35204**
Chemin, Jean-Yves Espaces fonctionnels associés au calcul de Weyl-Hörmander (d'après un travail avec J.-M. Bony). [Function spaces associated with the Weyl-Hörmander calculus (based on joint work with J.-M. Bony)] **94f:35160**
— *see also* **Cancelier, Claudy; et al.**, **94j:35204**
Christ, Michael (*with* Geller, Daryl; Głowacki, Paweł; Polin, Larry) Pseudodifferential operators on groups with dilations. **94b:35316**
Cicognani, Massimo (*with* Zanghirati, Luisa) Propagation of analytic and Gevrey singularities for operators with noninvolutive characteristics. **94h:35285**
Dereziński, Jan Some remarks on Weyl pseudodifferential operators. (English summary) **94j:35205**
Doi, Shin-ichi On the propagation of a certain polarization set for semilinear systems of real principal type. **94h:35286**
Geller, Daryl *see* **Christ, Michael; et al.**, **94b:35316**
Gérard, Patrick (*with* Leichtnam, Éric) Ergodicité de fonctions propres pour des problèmes aux limites. [Ergodicity of eigenfunctions for boundary value problems] **94e:35159**
Głowacki, Paweł *see* **Christ, Michael; et al.**, **94b:35316**
Ichinose, Wataru On the Cauchy problem for Schrödinger type equations and Fourier integral operators. **94i:35208**
— On a necessary condition for L^2 well-posedness of the Cauchy problem for some Schrödinger type equations with a potential term. **94i:35209**
Kaidi, Noureddine (*with* Rouleux, Michel) Forme normale d'un hamiltonien à deux niveaux près d'un point de branchement (limite semi-classique). (English and French summaries) [Normal form for a two-level Hamiltonian near a branching point (semi-classical limit)] **94g:35235**
Leichtnam, Éric *see* **Gérard, Patrick**, **94e:35159**
Leopold, Hans-Gerd (*with* Schrohe, Elmar) Spectral invariance for algebras of pseudodifferential operators on Besov spaces of variable order of differentiation. (English summary) **94i:35210**
Lerner, Nicolas A nonsolvable operator satisfying condition (ψ). (English summary) **94e:35160**
Marschall, Jürgen Parametrices for nonregular elliptic pseudodifferential operators. **94h:35287**
Matsumoto, Waichirô Normal form of systems of partial differential and pseudo-differential operators in the formal symbol class and applications. (English summary) (*see* **94e:00020**)
Mikulevičius, Remigius (*with* Pragarauskas, H.) On the Cauchy problem for certain integro-differential operators in Sobolev and Hölder spaces. (Lithuanian summary) **94k:35345**
Mustapha, Sami Sous-ellipticité et interpolation réelle dans le cadre du calcul $S(m,g)$. (English and French summaries) [Subellipticity and real interpolation in the setting of $S(m,g)$-calculus] **94h:35288**
Okada, Yasunori Second microlocal singularities of tempered and Gevrey classes. (English summary) **94a:35120**
Pi, Lian (*with* Wong, M. W.) Eigenvalues of semilinear pseudo-differential equations. (English summary) **94b:35317**
Polin, Larry *see* **Christ, Michael; et al.**, **94b:35316**
Pragarauskas, H. *see* **Mikulevičius, Remigius**, **94k:35345**
Rouleux, Michel *see* **Kaidi, Noureddine**, **94g:35235**
Schrohe, Elmar *see* **Leopold, Hans-Gerd**, **94i:35210**
Schulze, Bert-Wolfgang The variable discrete asymptotics of solutions of singular boundary value problems. **94i:35211**
Sjöstrand, Johannes Projecteurs adiabatiques du point de vue pseudodifférentiel. (English and French summaries) [Adiabatic projections from the pseudodifferential point of view] **94f:35161**
Sogge, Christopher D. ★ Fourier integrals in classical analysis. (English summary) **94c:35178**
Suzuki, Michiharu *see* **Wakabayashi, Seiichiro**, **94j:35206**
Tervo, Jouko Some classes of essentially maximal operators. (English summary) **94m:35326**
Ulin, V. V. On the method of summing Gaussian beams for a pseudodifferential equation of arbitrary order. (Russian) **94h:35289**
Wakabayashi, Seiichiro (*with* Suzuki, Michiharu) Microhypoellipticity for a class of pseudodifferential operators with double characteristics. **94j:35206**
Wong, M. W. *see* **Pi, Lian**, **94b:35317**
Xiao, Hua Zhu The strong Gårding inequality for a class of pseudodifferential operators. (Chinese. English and Chinese summaries) **94b:35318**
Xu, Chao Jiang *see* **Cancelier, Claudy; et al.**, **94j:35204**

Zaidman, S. A lower estimate for the norm of a pseudodifferential operator modulo compact operators. **94h:35290**
Zanghirati, Luisa *see* **Cicognani, Massimo, 94h:35285**

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Álvarez, Josefina (*with* Bagby, Richard J.; Kurtz, Douglas S.; Pérez, Carlos) Weighted estimates for commutators of linear operators. (English summary) **94k:47044**
Aoki, Takashi Characteristic sets of differential operators of infinite order. **94f:35159**
Bagby, Richard J. *see* **Álvarez, Josefina; et al., 94k:47044**
Belov, V. V. (*with* Dobrokhotov, S. Yu.) Semiclassical Maslov asymptotics with complex phases. I. General approach. (Russian. English and Russian summaries) **94g:58229**
— (*with* Dobrokhotov, S. Yu.) Semiclassical Maslov asymptotics with complex phases. I. General approach. (Russian. English and Russian summaries) **94g:58229**
Boggiatto, Paolo Sobolev spaces associated with a polyhedron and multiquasielliptic pseudodifferential operators in $\mathbb{R}^n$. (Italian. English summary) **94m:46054**
Boutet de Monvel, Louis *see* **Boutet de Monvel-Berthier, Anne-Marie; et al., 94h:35183**
Boutet de Monvel-Berthier, Anne-Marie (*with* Boutet de Monvel, Louis; Lebeau, Gilles) Sur les valeurs propres d'un oscillateur harmonique perturbé. [On the eigenvalues of a perturbed harmonic oscillator] **94h:35183**
Braam, Peter J. (*with* Duistermaat, J. J.) Normal forms of real symmetric systems with multiplicity. (English summary) **94k:58146**
Brummelhuis, Raymond Sur les inégalités de Gårding pour les systèmes d'opérateurs pseudo-différentiels. (English and French summaries) [Gårding inequalities for systems of pseudodifferential operators] **94a:47086**
Cancelier, Claudy (*with* Chemin, Jean-Yves; Xu, Chao Jiang) Calcul de Weyl et opérateurs sous-elliptiques. [Weyl calculus and subelliptic operators] **94g:35053**
Chau, T. C. (*with* Pi, Lian; Wong, M. W.) Spectra of pseudo-differential operators on the Schwartz space. (English summary) **94a:47087**
Chemin, Jean-Yves *see* **Cancelier, Claudy; et al., 94g:35053**
Dahmen, Wolfgang (*with* Prössdorf, Siegfried; Schneider, Reinhold) Multiscale methods for pseudodifferential equations. (English summary) **94k:65148**
Dehman, B. (*with* Robbiano, Luc) La propriété du prolongement unique pour un système elliptique. Le système de Lamé. [The unique continuation property for an elliptic system: the Lamé system] **94h:35051**
Dinh Nho Hào (*with* Trần Đứ'c Vân; Gorenflo, Rudolf) Towards the Cauchy problem for the Laplace equation. **94e:35052**
Dobrokhotov, S. Yu. *see* **Belov, V. V., 94g:58229** *and* **94g:58229**
Du, Xin Hua *see* **Lai, Shao Yong, 94e:47070**
Dubrovskii, V. V. On the asymptotics of the spectral function of differential operators in $L_p(M)$. (Russian. Russian summary) **94k:35227**
— (*with* Pechentsov, A. S.) On the asymptotics of the spectral function of selfadjoint pseudodifferential operators. (Russian. Russian summary) **94j:35118**
Duistermaat, J. J. *see* **Braam, Peter J., 94k:58146**
Figueroa, Héctor Function algebras under the twisted product. (English summary) **94g:46091**
Fiodo, Ornella (*with* Giuga, Salvatore) Singular perturbations for quasi-elliptic equations in L^p. (English and Italian summaries) **94k:35025**
Fujii, Shin-ichi On the uniqueness for the Cauchy problem for elliptic equations with triple characteristics. **94b:35060**
Garello, G. Inhomogeneous microlocal analysis for $\mathscr{E}^\infty$ and H^*_Ψ singularities. (English summary) **94j:58166**
Giuga, Salvatore *see* **Fiodo, Ornella, 94k:35025**
Gorenflo, Rudolf *see* **Dinh Nho Hào; et al., 94e:35052**
Gramchev, T. Nonsolvability for differential operators with multiple complex characteristics. **94k:35003**
Gramsch, Bernhard (*with* Ueberberg, Johannes; Wagner, Klaus) Spectral invariance and submultiplicativity for Fréchet algebras with applications to pseudo-differential operators and Ψ^*-quantization. **94g:47065**
Hoh, Walter Some commutator estimates for pseudo-differential operators with negative definite functions as symbols. (English summary) **94h:47095**
Ivrii, V. Ya. Spectral asymptotics for the family of commuting operators. (English summary) **94j:35119**
Jacob, Niels Pseudo-differential operators with negative definite functions as symbol: applications in probability theory and mathematical physics. (English summary) **94h:47096**
— (*with* Leopold, Hans-Gerd) Pseudo-differential operators with variable order of differentiation generating Feller semigroups. **94i:47083**
— Further pseudodifferential operators generating Feller semigroups and Dirichlet forms. (English summary) **94i:60085**
Jefferies, Brian R. F. (*with* Ricker, Werner J.) The Weyl calculus and a singular integral in $L^1(\mathbb{R})$. **94h:47097**
Karadzhov, Georgi E. Asymptotics of the spectral function on the diagonal for a class of globally elliptic operators in $\mathbb{R}^n$. (Russian. English and Russian summaries) **94a:35087**
Khesin, B. A. (*with* Zakharevich, I. S.) Poisson-Lie group of pseudodifferential symbols and fractional KP-KdV hierarchies. (English and French summaries) **94c:58087**
Kochubei, A. N. A Schrödinger-type equation over the field of p-adic numbers. (English summary) **94f:47059**
Kurtz, Douglas S. *see* **Álvarez, Josefina; et al., 94k:47044**
Lai, Shao Yong (*with* Du, Xin Hua) An improved form of boundedness theorems for pseudodifferential operators. (Chinese. English and Chinese summaries) **94e:47070**
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Leopold, Hans-Gerd *see* **Jacob, Niels, 94i:47083**
Manchon, Dominique Weyl symbolic calculus on any Lie group. (English summary) **94d:22008**
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Meinrenken, Eckhard Semiclassical principal symbols and Gutzwiller's trace formula. (English summary) **94k:58147**
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39A70 Difference operators [see also 47B39]

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39Bxx Functional equations [see also 30D05]

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39B12 Iteration theory, iterative and composite equations [see also 26A18, 30D05, 58F08]

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39B32 Equations for complex functions [see also 30D05]

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Kuczma, Marek On a functional equation occurring in astrophysics. (English summary) **94j:39011**
Li, Wen Rong Differentiable solutions to two classes of functional equations with many unknown functions. (Chinese. English and Chinese summaries) **94k:39049**
Reich, Ludwig On linear relations among analytic functions arising in the theory of sum form equations and in the theory of linear differential equations. **94k:39050**
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Gajda, Zbigniew On trigonometric polynomials spanned by characters of unitary representations. (English summary) **94d:39008**
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39B42 Matrix and operator equations

Baskakov, A. G. (*with* Chan Khyu Bong) On the almost periodicity of solutions of linear functional equations. (Russian) **94f:39010**
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Kovalevskiĭ, N. P. On the analytic structure of solutions of functional and functional-differential equations. (Russian. English and Russian summaries) **94e:39020**
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Berg, Lothar The composition of solutions of the multidimensional translation equation. (English summary) **94j:39012**
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Goodman, T. N. T. (*with* Micchelli, Charles A.; Ward, J. D.) Spectral radius formulas for subdivision operators. (English summary) **94m:47076**
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39B52 Equations for functions with more general domains and/or ranges

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— On trigonometric polynomials spanned by characters of unitary representations. (English summary) **94d:39008**
— On multiplicative solutions of the parallelogram functional equation. **94k:39056**
Galvin, Fred (*with* Muraz, Gilbert; Szeptycki, Pawel) Fonctions aux différences $f(x)-f(a+x)$ continues. (English and French summaries) [Functions with continuous differences $f(x)-f(a+x)$] **94b:39035**
Ger, Roman The singular case in the stability behaviour of linear mappings. **94k:39057**
Gronau, Detlef The Jabotinsky equations and the embedding problem. (English summary) **94b:39036**
Halter-Koch, Franz (*with* Reich, Ludwig; Schwaiger, Jens) On products of additive functions. (English summary) **94e:39021**
Hammer, Claus On the functional equation $a[f(x+y)+f(x-y)-2f(x)-2f(y)]+b[f(xy)-f(x)f(y)]=0$. (English summary) **94b:39037**
Kannappan, P. L. *see* **Baron, Karol, 94k:39052**
Koh, Eusebio L. On Hosszú's functional equation in distributions. **94f:39012**
Kostyrko, Pavel An abstract form of a conditional Cauchy's equation. (English summary) **94k:39058**
Kuczma, Marek On measurable functions with vanishing differences. (English summary) **94k:39059**
Matkowski, Janusz L^p-like paranorms. (English summary) **94g:39010**
Moszner, Zenon Les propriétés et les formes invariantes des solutions de l'équation de translation sur un groupe. [Invariant properties and forms of solutions of the translation equation on a group] **94k:39060**
Muraz, Gilbert *see* **Galvin, Fred; et al., 94b:39035**
Rassias, John Michael On the stability of the Euler-Lagrange functional equation. **94e:39022**
Reich, Ludwig On the embedding problem for formal power series with respect to the Aczél-Jabotinsky equations. (English summary) **94b:39038**
— *see also* **Halter-Koch, Franz; et al., 94e:39021**
Riedel, Thomas Cauchy's equation on Δ^+: further results. (English summary) **94a:39019**
Sablik, Maciej A functional congruence revisited. **94k:39061**
— A remark on a mean value property. (English summary) **94b:39039**
Sahoo, P. K. *see* **Zhong, Ju Kang; et al., 94b:39041**
Schwaiger, Jens *see* **Halter-Koch, Franz; et al., 94e:39021**
Skof, Fulvia On two conditional forms of the equation $\|f(x+y)\|=\|f(x)+f(y)\|$. (English summary) **94b:39040**
— *see also* **Berruti, Giorgia, 94a:39018**
Szabó, György Functional equations with orthogonal conditions. (Slovenian. English and Slovenian summaries)
— A conditional Cauchy equation on normed spaces. (English summary) **94k:39062**
Szeptycki, Pawel *see* **Galvin, Fred; et al., 94b:39035**
Volkmann, Peter *see* **Chaljub-Simon, Alice, 94k:39055**
Zhong, Ju Kang (*with* Ebanks, B. R.; Sahoo, P. K.) On a functional equation of Świątak on groups. (English summary) **94b:39041**

Items with secondary classifications in 39B52

Bâbescu, Gh. Convergence properties of sequences of B-valued cosine functions. II. (Romanian summary) **94g:47052**
Brzdęk, Janusz On a generalization of the Cauchy functional equation. (English summary) **94k:39043**
Charrière, H. (*with* Gérard, Raymond) The rings of formal and convergent inverse factorial series. **94b:39019**
Gaĭshun, I. V. A class of multiparameter functional equations. (Russian. English and Russian summaries) **94f:34161**
Ger, Roman M. Kuczma's papers on functional equations in several variables. **94e:39001c**
Gérard, Raymond *see* **Charrière, H., 94b:39019**
(Kuczma, Marek) *see* **Ger, Roman, 94e:39001c**
Laugwitz, Detlef Regular hexagons in normed spaces and a theorem of Walter Benz. (English summary) **94c:51030**
Mach, Andrzej The translation equation on certain n-groups. (English summary) **94j:39006**
Nikčević, Stana Ž. On a method for solving the linear group functional equation. (English and Serbo-Croatian summaries) **94i:39005**
Skof, Fulvia Isometries on a restricted domain in normed spaces and their affine extensions. (Italian. English summary) **94e:46024**
Vukman, Joso A functional equation in rings. (English and Serbo-Croatian summaries) **94h:16070**

39B62 Systems of functional equations

Berg, Lothar The composition of solutions of the multidimensional translation equation. (English summary) **94j:39012**
Förg-Rob, Wolfgang (*with* Schwaiger, Jens) On the stability of a system of functional equations characterizing generalized hyperbolic and trigonometric functions. (English summary) **94e:39023**
Girgensohn, Roland Functional equations and nowhere differentiable functions. (English summary) **94j:39013**
— Nowhere differentiable solutions of a system of functional equations. (English summary) **94k:39063**
Kalenyuk, P. I. (*with* Nitrebich, Z. N.) The method of separation of variables for a matrix bilinear functional equation and its application. (Ukrainian. Russian and Ukrainian summaries) **94j:39014**
Liu, Yong Qing *see* **Xiao, Hui Min, 94d:39009**
Nitrebich, Z. N. *see* **Kalenyuk, P. I., 94j:39014**
Schwaiger, Jens *see* **Förg-Rob, Wolfgang, 94e:39023**
Tudosie, C. On the functional equations of two theorems of addition. (Romanian. English summary) **94e:39024**
Xiao, Hui Min (*with* Liu, Yong Qing) Stability of linear discrete systems with time delay. (English summary) **94d:39009**

Items with secondary classifications in 39B62

Benz, Walter Bewegungen in der Einsteinschen Zylinderwelt. (English summary) [Motions in Einstein's cylinder universe] **94j:53019**
Berg, Lothar The local structure of the solutions of the multidimensional translation equation. (English summary) **94k:39053**
Bukhshtaber, V. M. (*with* Krichever, Ios. M.) Vector addition theorems and Baker-Akhiezer functions. (Russian. English and Russian summaries) **94h:14047**

Gajda, Zbigniew On multiplicative solutions of the parallelogram functional equation. **94k:39056**
Járai, Antal On Lipschitz property of solutions of functional equations. (English summary) **94k:39037**
Karlovich, Yu. I. (*with* Kravchenko, V. G.; Litvinchuk, G. S.) Invertibility of functional operators in Banach spaces. (Russian. Russian summary) **94e:47041**
Kravchenko, V. G. *see* **Karlovich, Yu. I.; et al., 94e:47041**
Krichever, Ios. M. *see* **Bukhshtaber, V. M., 94h:14047**
Litvinchuk, G. S. *see* **Karlovich, Yu. I.; et al., 94e:47041**
Mayor, G. (*with* Torrens, Joan) de Rham systems and the solution of a class of functional equations. (English summary) **94k:39041**
Torrens, Joan *see* **Mayor, G., 94k:39041**
Zdun, Marek Cezary On diffeomorphic solutions of simultaneous Abel's equations. (English summary) **94a:39014**

39B72 Inequalities involving unknown functions [see also 26A51, 26Dxx]

Alsina, Claudi (*with* Tomás, M. S.) On t-norms dominating quasiarithmetic means. (English summary) **94j:39015**
Baron, Karol (*with* Rätz, Jürg) Orthogonality and additivity modulo a subgroup. (English summary) **94j:39016**
Brzdęk, Janusz On functions satisfying some inequalities. (English summary) **94e:39025**
Chmieliński, Jacek Quasi-Jensen functions. (English summary) **94k:39064**
— (*with* Tabor, Józef) On approximate solutions of the Pexider equation. (English summary) **94m:39004**
Czerwik, Stefan On the stability of the quadratic mapping in normed spaces. (English summary) **94e:39026**
Ebanks, B. R. (*with* Kannappan, P. L.; Sahoo, P. K.) A common generalization of functional equations characterizing normed and quasi-inner-product spaces. (English summary) **94a:39020**
Ger, Roman On functional inequalities stemming from stability questions. (English summary) **94b:39042**
Hammer, Claus Über die Funktionalungleichung $f(x+y)+f(xy) \geq f(x)+f(y)+f(x)f(y)$. (English summary) [On the functional inequality $f(x+y)+f(xy) \geq f(x)+f(y)+f(x)f(y)$] **94a:39021**
Isac, George (*with* Rassias, Themistocles M.) On the Hyers-Ulam stability of ψ-additive mappings. (English summary) **94b:39043**
Kannappan, P. L. *see* **Ebanks, B. R.; et al., 94a:39020**
Matkowski, Janusz (*with* Nikodem, Kazimierz) Solutions of some functional inequalities connected with convex functions. (English summary) **94e:39027**
— (*with* Świątkowski, Tadeusz) Subadditive functions and partial converses of Minkowski's and Mulholland's inequalities. (English summary) **94m:39005**
Nikodem, Kazimierz *see* **Matkowski, Janusz, 94e:39027**
Pečarić, Josip E. Two remarks on Hosszú's functional inequality. **94b:39044**
Powroźnik, Małgorzata An example to a problem of Z. Daroczy. (English, Russian and Polish summaries) **94h:39007**
Rassias, John Michael Solution of a stability problem of Ulam. (English summary) **94d:39010**
Rassias, Themistocles M. (*with* Šemrl, Peter) On the Hyers-Ulam stability of linear mappings. (English summary) **94d:39011**
— *see also* **Isac, George, 94b:39043**
Rätz, Jürg *see* **Baron, Karol, 94j:39016**
Sahoo, P. K. *see* **Ebanks, B. R.; et al., 94a:39020**
Šemrl, Peter *see* **Rassias, Themistocles M., 94d:39011**
Świątkowski, Tadeusz *see* **Matkowski, Janusz, 94m:39005**
Tabor, Józef *see* **Chmieliński, Jacek, 94m:39004**
Tomás, M. S. *see* **Alsina, Claudi, 94j:39015**

Items with secondary classifications in 39B72

Cholewa, Piotr W. A geometric view on δ-convex functions. **94j:26021**
Kwong, Man Kam (*with* Zettl, Anton) ★ Norm inequalities for derivatives and differences. **94f:26011**
Liu, Hui Min Determination of several classes of elementary functions by functional inequalities. (Chinese. English and Chinese summaries) **94g:26003**
Matkowski, Janusz L^p-like paranorms. (English summary) **94g:39010**
Zettl, Anton *see* **Kwong, Man Kam, 94f:26011**

39B99 None of the above, but in this section

Czerwik, Stefan On the stability of the homogeneous mapping. (English summary) **94a:39022**
Daróczy, Zoltán (*with* Járai, Antal; Kátai, Imre) Some remarks on interval filling sequences and additive functions. **94d:39012**
Járai, Antal *see* **Daróczy, Zoltán; et al., 94d:39012**
Kátai, Imre *see* **Daróczy, Zoltán; et al., 94d:39012**
Kuczma, Marcin E. On the mutual noncompatibility of homogeneous analytic nonpower means. (English summary) **94d:39014**
Maksa, Gyula Interval filling sequences and the dyadic group. **94d:39013**

Items with secondary classifications in 39B99

Csiszár, Imre New axiomatic results on inference for inverse problems. (English summary) **94a:62004**
Dhombres, Jean Le rôle des équations fonctionnelles dans l'*Analyse algébrique* de Cauchy. (English and French summaries) [The role of functional equations in Cauchy's *Algebraic analysis*] **94b:01023**
Driebe, Dean J. *see* **Hasegawa, Hiroshi H., 94c:58124**
Foryś, U. Mathematical model of an immune system with random time of reaction. **94b:92008**
Gajda, Zbigniew (*with* Smajdor, Andrzej; Smajdor, Wilhelmina) A theorem of the Hahn-Banach type and its applications. (English summary) **94d:46008**
Hansen, Lowell J. (*with* Shapiro, Harold S.) Graphs and functional equations. (English summary) **94b:30030**
Hasegawa, Hiroshi H. (*with* Driebe, Dean J.) Spectral determination and physical conditions for a class of chaotic piecewise-linear maps. (English summary) **94c:58124**
Kochneff, Elizabeth (*with* Sagher, Yoram; Tan, Ruby) On a theorem of Akhiezer. **94i:44003**
Lettl, Günter Finding zeroes of polynomials using power series. **94e:65056**
Petryshyn, Wolodymyr V. ★ Approximation-solvability of nonlinear functional and differential equations. **94f:47081**
Rao, Calyampudi Radhakrishna (*with* Shanbhag, D. N.) Some observations on the integrated Cauchy functional equation. (English summary) **94k:62021**
Sagher, Yoram *see* **Kochneff, Elizabeth; et al., 94i:44003**
Shanbhag, D. N. *see* **Rao, Calyampudi Radhakrishna, 94k:62021**
Shapiro, Harold S. *see* **Hansen, Lowell J., 94b:30030**
Smajdor, Andrzej *see* **Gajda, Zbigniew; et al., 94d:46008**
Smajdor, Wilhelmina *see* **Gajda, Zbigniew; et al., 94d:46008**
Tan, Ruby *see* **Kochneff, Elizabeth; et al., 94i:44003**

40-XX Sequences, series, summability

40-01 Instructional exposition (textbooks, tutorial papers, etc.)

Slyusarchuk, V. E. Some conditions for the convergence of numerical series. (Russian) (*see* **93j:00002**)
Tong, Jing Cheng Kummer's test gives characterizations for convergence or divergence of all positive series.

40-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 40-03

Baron, Simson (*with* Leviatan, Dany) Professor Amnon Jakimovski—on his sixty-fifth birthday. **94d:01054**
Calderón, Calixto P. The 16th-century Iberian calculatores. **94m:01013**
(Jakimovski, Amnon) *see* **Baron, Simson, 94d:01054**
Leviatan, Dany *see* **Baron, Simson, 94d:01054**

40Axx Convergence and divergence of infinite limiting processes

40A05 Convergence and divergence of series and sequences

Barvínek, Erich (*with* Daler, Ivan; Franců, Jan) Convergence of sequences of inverse functions. (English summary) **94f:40001**
Başarir, Metin On rates of convergence and divergence of the Cauchy product of series. (English summary) **94h:40001**
Daler, Ivan *see* **Barvínek, Erich; et al., 94f:40001**
Duffin, R. J. On seeing progressions of constant cross ratio. **94e:40001**
de Faria Campos, Edison (*with* Sheik V., Ali) New approximations for e. (Spanish. Spanish summary) **94b:40001**
Fejes Tóth, László On a class of Leibniz series. **94h:40002**
Fiorito, Giovanni (*with* Musmeci, Rosario; Strano, Mario) On series whose general terms are defined recursively. (Italian. English summary) **94j:40001**
Franců, Jan *see* **Barvínek, Erich; et al., 94f:40001**
Honsberger, Ross A problem of Pólya. **94e:40002**
Knill, Ronald J. A modified Babylonian algorithm. **94e:40003**
Lin, Xu Dong A problem of Ferenc Móricz. (Chinese. English summary) **94m:40001**
Mercer, A. McD. Divergent sequences satisfying the linear fractional transformations. (English summary) **94j:40002**
Musmeci, Rosario *see* **Fiorito, Giovanni; et al., 94j:40001**
Sheik V., Ali *see* **de Faria Campos, Edison, 94b:40001**
Strano, Mario *see* **Fiorito, Giovanni; et al., 94j:40001**
Urazbekova, B. G. On Euler summation of series of factorials with alternating signs. (Russian)
Varshamov, R. R. Some problems of projective arithmetic. (Russian) **94k:40001a**
— Correction to: "Some problems of projective arithmetic". **94k:40001b**
Wituła, Roman On the convergence of series having the form $\sum \min\{a_n, b_n\}$. (English summary) **94a:40001**

Items with secondary classifications in 40A05

Bai, Yu Lan (*with* Qiu, Hong Song) Using the limit function of a sequence of functions to define the exponential function $y = a^x$. (Chinese. English and Chinese summaries) **94a:26003**
Barshinger, Richard Calculus II and Euler also (with a nod to series integral remainder bounds). **94k:26003**
Berndt, Bruce C. (*with* Hafner, James Lee) A theorem of Ramanujan on certain alternating series. (English summary) **94a:11141**
Biró, András Notes on nonnegative convergent series. **94h:26027**
Cho, Min Hyung *see* **Li, Rong Lu; et al., 94c:46005**

DeTemple, Duane W. A quicker convergence to Euler's constant. **94e:11146**
Gonsor, Daniel E. Subdivision algorithms with nonnegative masks generally converge. (English summary) **94e:65023**
Hafner, James Lee *see* **Berndt, Bruce C., 94a:11141**
Jakubík, Ján On systems of sequences of reals. (English summary) **94k:26002**
Li, Rong Lu (*with* Swartz, Charles; Cho, Min Hyung) Basic properties of $\mathscr{X}$-spaces. (English summary) **94c:46005**
Milne, Stephen C. Summation theorems for basic hypergeometric series of Schur function argument. (English summary) **94i:33025**
Phipps, Thomas E., Jr. On infinite process convergence. I. Speeding series convergence. (English and French summaries) **94i:65006**
Qiu, Hong Song *see* **Bai, Yu Lan, 94a:26003**
Swartz, Charles *see* **Li, Rong Lu; et al., 94c:46005**
Ugowski, Henryk Existence conditions for convolution inverses of real finite sequences. (English summary) **94j:94004**
Weber, Michel Jean Georges Méthodes de sommation matricielles. (English and French summaries) [Matrix summation methods] **94a:40003**
Weniger, Ernst Joachim Interpolation between sequence transformations. (English summary) **94d:65008**

40A10 Convergence and divergence of integrals

Items with secondary classifications in 40A10

Barshinger, Richard Calculus II and Euler also (with a nod to series integral remainder bounds). **94k:26003**

40A15 Convergence and divergence of continued fractions [see also 30B70]

Baltus, C. Truncation error bounds for the composition of limit-periodic linear fractional transformations. (English summary) **94h:40003**
Bodnar, D. I. On Koch's convergence test for branching continued functions. (Ukrainian. Ukrainian summary) **94d:40001**
— (*with* Kuchminskaya, Kh. I.; Sus′, O. N.) A survey of analytic theory of branched continued fractions.
Iosifescu, Marius A very simple proof of a generalization of the Gauss-Kuzmin-Lévy theorem on continued fractions, and related questions. (English summary) **94j:40003**
Kuchminskaya, Kh. I. *see* **Bodnar, D. I.; et al.**
Lorentzen, Lisa A note on separate convergence for continued fractions. (English summary) **94g:40001**
— Analytic continuation of functions given by continued fractions, revisited. (English summary) **94h:40004**
— Divergence of continued fractions related to hypergeometric series. (English summary) **94g:40002**
Sus′, O. N. *see* **Bodnar, D. I.; et al.**
Waadeland, Haakon Probability distribution of continued fraction values. An invitation and an example. **94f:40002**
— Some continued fractions with point-circle twin element sets. **94f:40003**

Items with secondary classifications in 40A15

Achuthan, P. (*with* Rangarajan, R.) On regular C-fraction and general T-fraction expansions for ratios of basic hypergeometric series and Ramanujan-type identities. (English summary) **94i:33021**
Ahlbrandt, Calvin D. Continued fraction representations of maximal and minimal solutions of a discrete matrix Riccati equation. (English summary) **94k:39002**
Gill, John Outer compositions of hyperbolic/loxodromic linear fractional transformations. (English summary) **94a:30004**
Ismail, Mourad E. H. (*with* Takeuchi, Yu; Zhang, Ruiming) Pages from the computer files of R. William Gosper. (English summary) **94h:33001**
Jones, William B. (*with* Thron, W. J.; Wyshinski, Nancy J.) Asymptotic behavior of polynomials satisfying three-term recurrence relations. (English summary) **94a:42026**
— (*with* Magnus, Arne; Thron, W. J.) PC-fractions and orthogonal Laurent polynomials for log-normal distributions. (English summary) **94f:44009**
Lorentzen, Lisa Computations of hypergeometric functions by means of continued fractions. (English summary) **94b:30007**
Magnus, Arne *see* **Jones, William B.; et al., 94f:44009**
Rangarajan, R. *see* **Achuthan, P., 94i:33021**
Takeuchi, Yu *see* **Ismail, Mourad E. H.; et al., 94h:33001**
Thron, W. J. *see* **Jones, William B.; et al., 94a:42026** *and* **94f:44009**
Wyshinski, Nancy J. *see* **Jones, William B.; et al., 94a:42026**
Zhang, Liang Cheng Ramanujan's continued fractions for products of gamma functions. (English summary) **94c:33006**
Zhang, Ruiming *see* **Ismail, Mourad E. H.; et al., 94h:33001**

40A20 Convergence and divergence of infinite products

Items with secondary classifications in 40A20

Liedl, Roman Zur Konvergenzgeschwindigkeit des Pilgerschrittproduktes. [On the rate of convergence of the Pilgerschritt product] **94m:41037**
Rummler, Hansklaus Squaring the circle with holes. **94h:51038**

40A25 Approximation to limiting values (summation of series, etc.) {For the Euler-Maclaurin summation formula, see 65B15.}

DeTemple, Duane W. The form of Comtet functions of divergent series. (English summary) **94e:40004**
Fejes Tóth, László An elementary derivation of Stirling's asymptotic series. (Romanian summary) **94f:40004**
Hsieh, Tsai Ming *see* **Tu, Shih T'ung, 94m:40002**
Tu, Shih T'ung (*with* Hsieh, Tsai Ming) On the finite sum $Q^L_{m,n}$ and the infinite sum $Q_{p,m,n}$ (motivated by a serendipity in fractional calculus). (English summary) **94m:40002**
Van Tuyl, Andrew H. Acceleration of convergence of a family of logarithmically convergent sequences. (English summary) **94i:40001**

Items with secondary classifications in 40A25

Nishimoto, Katsuyuki On the infinite sum $Q_{m,n} = \sum_{k=1}^{\infty} 1/k(k+m)(k+m+1)\cdots(k+m+n)$ $(n \in \mathbf{Z}^+ \cup \{0\},\ m \in \mathbf{Z}^+)$ (a serendipity in fractional calculus). (English summary) **94e:05026a**
— (*with* Tu, Shih T'ung) On the infinite sums $\sum_{n=1}^{\infty}(n-1)!2^{n-1}/\prod_{k=0}^{n}(2k+3)$ and $\sum_{n=1}^{\infty}(n-1)!(n+1)2^{n-1}/\prod_{k=0}^{n+1}(2k+3)$ (a serendipity in fractional calculus). (English summary) **94e:05026b**
— (*with* Tu, Shih T'ung) On infinite sum $R_{m,\beta} = (-1)^m \sum_{k=1}^{\infty}((-1)^k \cdot (m+k-1)!/(m-1)!k) \cdot \Gamma(-m-k-\beta)/\Gamma(-\beta)$ (serendipity in fractional calculus). (English summary) **94e:05026c**
Thron, W. J. Limit periodic Schur algorithms, the case $|\gamma| = 1$, $\sum d_n < \infty$. (English summary) **94a:30002**
Tu, Shih T'ung *see* **Nishimoto, Katsuyuki, 94e:05026b** *and* **94e:05026c**

40A30 Convergence and divergence of series and sequences of functions

Grenov, A. I. Summation of function series by means of residues. (Russian. English and Russian summaries) **94d:40002**

Items with secondary classifications in 40A30

Bukovská, Zuzana (*with* Bukovský, Lev; Ewert, Janina) Quasi-uniform convergence and $\mathscr{Z}$-spaces. **94e:26005**
Bukovský, Lev *see* **Bukovská, Zuzana; et al., 94e:26005**
Èĭderman, V. Ya. On the sum of values of functions in certain classes on a sequence of points. (Russian) **94d:31003**
Ewert, Janina *see* **Bukovská, Zuzana; et al., 94e:26005**
Gill, John Outer compositions of hyperbolic/loxodromic linear fractional transformations. (English summary) **94a:30004**
Gingold, Harry Eventual summability at a singular point. (English summary) **94h:40009**
Guo, Wei Yan (*with* Zhang, Guo Cai) Termwise integration and differentiation of series of functions. (Chinese. English and Chinese summaries) **94j:26023**
Hejduk, Jacek The convergence of multi-index sequences of Baire functions. (English and Polish summaries) **94j:28003**
Hellekalek, Peter On the boundedness of Weyl sums. (English summary) **94e:11094**
Kratz, Werner (*with* Trautner, R.) The central limit theorem for subsequences and rearrangements of random variables. (English summary) **94m:60050**
Kryžienė, B. Generalized Euler-Maclaurin summation formulas. (Russian. Lithuanian summary) **94j:41026**
Mishra, S. *see* **Sharma, Sushil, 94c:40003**
Müller, Jürgen[3] On numerical analytic continuation and convergence acceleration by summability methods. (English summary) **94j:40013**
Patidar, S. C. *see* **Sharma, Sushil, 94c:40002**
Sharma, Sushil (*with* Patidar, S. C.) On absolute Cesàro summability of Laplace series. (Hindi. English and Hindi summaries) **94c:40002**
— (*with* Mishra, S.) Absolute Cesàro summability of Fourier-Laguerre series. (Hindi. English and Hindi summaries) **94c:40003**
Thomann, Jean Resummation of formal power series and orthogonal polynomials. (*see* **94m:42003**)
Trautner, R. *see* **Kratz, Werner, 94m:60050**
Zhang, Guo Cai *see* **Guo, Wei Yan, 94j:26023**

40A99 None of the above, but in this section

Mazhar, S. M. An integrability theorem for power series. **94h:40005**

Items with secondary classifications in 40A99

Bencze, M. A new proof of the arithmetic-geometric mean inequality.
Bezanilla López, Arnoldo Some classes of matrix series and their asymptotic behavior. (Spanish. English and Spanish summaries) **94k:40009**
Daróczy, Zoltán (*with* Járai, Antal; Kátai, Imre) Some remarks on interval filling sequences and additive functions. **94d:39012**
Járai, Antal *see* **Daróczy, Zoltán; et al., 94d:39012**
Kátai, Imre *see* **Daróczy, Zoltán; et al., 94d:39012**
Narayanan, A. *see* **Ravichandran, V., 94m:11031**
Ravichandran, V. (*with* Narayanan, A.) Proofs for Ramanujan's formulas. (English summary) **94m:11031**

40B05 Multiple sequences and series (should also be assigned at least one other classification number in this section)

Jardas, C. (*with* Sarapa, N.) On the summability of pairs of sequences. (English and Serbo-Croatian summaries) **94m:40003**
Németh, Z. On the generalized Cesàro summability. **94f:40005**
— On the generalized absolute summability of double series. **94f:40006**
Rajammal, K. *see* **Somasundaram, D., 94i:40002**
Raşa, I. (*with* Toader, Gh.) On the rate of convergence of double sequences. (Romanian summary)
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Zayed, Ahmed I. A new role of sampling theory in the theory of special functions. (English summary) **94b:33002**

40Cxx General summability methods

40C05 Matrix methods

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Choudhury, Ajanta *see* **Das, N. R., 94e:40006**
Das, Gokulananda (*with* Mohapatro, Premalata) On absolute quasi-Nörlund means. **94k:40003**
Das, N. R. (*with* Choudhury, Ajanta) Matrix transformation of vector valued sequence spaces. (English summary) **94e:40006**
Khan, F. M. (*with* Khan, Mushir A.) Matrix transformations in some sequence spaces. **94h:40006**
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Loone, Leiki (*with* Tohver, Epp) On cores of summability methods generated by weighted means. (Estonian summary) **94k:40004**
Malkowsky, E. Matrix transformations in some spaces of strongly bounded sequences. **94j:40005**
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Gao, Xiaopeng *see* **Borwein, David, 94i:47045**
Jürimäe, Endel Replaceability for λ-summability. **94g:40012**
Lazić, Milivoje G. Theorems on the inclusion of a set of sequences of bounded variation in the domain of application of matrix operators and convergence methods. (Russian. English and Serbo-Croatian summaries) **94g:40004**
Leindler, László On strong approximation by Cesàro means of negative order. **94k:42052**
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Soomer, V. Inclusion theorems for strong summability. (Estonian summary) **94i:40009**
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40C10 Integral methods

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Vichmann, Frederik On the inclusion of the Poisson-Abel type methods for integrals. (Estonian summary) **94h:40008**

40C15 Function-theoretic methods (including power series methods and semicontinuous methods)

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— Addendum: "A different characterization of multi-summable power series" [Analysis **12** (1992), no. 1-2, 57–65; MR 93d:40009]. (English summary) **94k:40006**
Baron, Simson (*with* Tietz, Hubert) Produktsätze für Potenzreihenverfahren und verallgemeinerte Nörlund-Mittel. (Estonian summary) [Product theorems for power series methods and generalized Nörlund means] **94k:40007**
Das, Gokulananda (*with* Rao, K. A. S. S. V. K.) A generalisation of quasi-convex sequence spaces and its application to trigonometric series. **94b:40003**
Gingold, Harry Eventual summability at a singular point. (English summary) **94h:40009**
Lal, Shyam (*with* Singh, G. P.) A study of Legendre series by strong Borel summability method. (Hindi. English and Hindi summaries)
Rao, K. A. S. S. V. K. *see* **Das, Gokulananda, 94b:40003**
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Nishimoto, Katsuyuki (*with* Tu, Shih T'ung) On infinite sum $R_{m,\beta} = (-1)^m \sum_{k=1}^{\infty}((-1)^k \cdot (m+k-1)!/(m-1)!k) \cdot \Gamma(-m-k-\beta)/\Gamma(-\beta)$ (serendipity in fractional calculus). (English summary) **94e:05026c**
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Orhan, O. Cauchy product of almost convergent series. **94h:40010**

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Šalát, Tibor *see* **Borsík, Ján, 94m:26006**
Weniger, Ernst Joachim Interpolation between sequence transformations. (English summary) **94d:65008**

40Dxx Direct theorems on summability

40D05 General theorems

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Dikshit, H. P. (*with* Fridy, J. A.) Some absolutely effective product methods. (English summary) **94j:40012**
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Khan, F. M. (*with* Khan, Mushir A.) Matrix transformations in some sequence spaces. **94h:40006**
Khan, Mushir A. *see* **Khan, F. M., 94h:40006**
Natarajan, P. N. Characterization of some special classes of infinite matrices over non-Archimedean fields. (English summary) **94g:40014**

40D09 Structure of summability fields

Items with secondary classifications in 40D09

Beekmann, Wolfgang (*with* Chang, Shao-Chien) On distinguished subsets and conullity of FK-spaces. (English summary) **94f:46010**
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Grosse-Erdmann, Karl-Goswin The μ-continuity problem and the structure of matrix domains. **94a:46015**

40D10 Tauberian constants and oscillation limits

Stadtmüller, Ulrich Tauberian constants for power series methods in summability. (English summary) **94k:40008**

40D15 Convergence factors and summability factors

Beekmann, Wolfgang (*with* Zeller, Karl) Inequalities for summability factors. (English summary) **94b:40004**
Bor, Hüseyin On absolute summability factors. (English summary) **94g:40007**
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— On absolute weighted mean summability methods. **94f:40008**
— On the absolute summability factors of infinite series. (English summary) **94g:40006**
Öztürk, Ekrem *see* **Sarıgöl, M. Ali, 94m:40004**
Sarıgöl, M. Ali On the absolute Cesàro summability factors of infinite series. (English summary) **94h:40011**
— (*with* Öztürk, Ekrem) A note on $|\overline{N}, p_n|$ summability factors of infinite series. (English summary) **94m:40004**
Sulaiman, W. T. A note on two summability methods. (English summary) **94c:40001**
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— A note on $|\overline{N}, p_n|_k$ summability factors. (English and Italian summaries) **94j:40011**
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40D20 Summability and bounded fields of methods

Henstock, R. Infinite decimals. (English summary) **94f:40009**

Solak, Ihsan Matrix sequences on certain generalized sequence spaces. (English and Turkish summaries) **94a:40004**

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Başarir, Metin On some new sequence spaces. (English summary) **94e:46011**
Choudhary, B. (*with* Mishra, S. K.) On Köthe-Toeplitz duals of certain sequence spaces and their matrix transformations. (English summary) **94g:46008**
— (*with* Mishra, S. K.) A note on the consistency of limitation methods. **94m:40007**
Et, Mikail On some difference sequence spaces. (English and Turkish summaries) **94e:40012**
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Loone, Leiki (*with* Tohver, Epp) On cores of summability methods generated by weighted means. (Estonian summary) **94k:40004**
Malkowsky, E. Matrix transformations in some spaces of strongly bounded sequences. **94j:40005**
Mishra, S. K. *see* **Choudhary, B., 94g:46008** *and* **94m:40007**
Nuray, Fatih (*with* Savaş, Ekrem) Some new sequence spaces defined by a modulus function. (English summary) **94k:40010**
Savaş, Ekrem A generalization of strong almost convergence. **94f:40012**
— *see also* **Nuray, Fatih, 94k:40010**
Tohver, Epp *see* **Loone, Leiki, 94k:40004**

40D25 Inclusion and equivalence theorems

Dikshit, G. D. On absolute Riesz and absolute Nörlund summability. **94a:40005**

Items with secondary classifications in 40D25

Bor, Hüseyin On the strong boundedness of infinite series. (English summary) **94i:40006**
— A note on absolute summability methods. (English summary) **94j:40010**
Choudhary, B. (*with* Mishra, S. K.) A note on the consistency of limitation methods. **94m:40007**
Das, Gokulananda (*with* Rao, K. A. S. S. V. K.) A generalisation of quasi-convex sequence spaces and its application to trigonometric series. **94b:40003**
Loone, Leiki (*with* Tohver, Epp) On cores of summability methods generated by weighted means. (Estonian summary) **94k:40004**
Mishra, S. K. *see* **Choudhary, B., 94m:40007**
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Sarıgöl, M. Ali On some absolute summability methods. (English summary) **94f:40011**
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40D99 None of the above, but in this section

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40Exx Inversion theorems

40E05 Tauberian theorems, general

Dalela, A. K. *see* **Prakash, Ved, 94m:40006**
Ishiguro, Kazuo (*with* Tietz, Hubert) Tauber-Sätze für $J_{p\lambda}$-Verfahren. (English summary) [Tauber theorems for $J_{p\lambda}$-methods] **94m:40005**
Prakash, Ved (*with* Dalela, A. K.) Note on the Tauberian theorem for (A, λ) method. (English summary) **94m:40006**
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Stepanyants, S. A. Tauberian-type theorems for Cesàro summability methods. (Russian. Russian summary) **94i:40005**
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Stadtmüller, Ulrich Tauberian theorems for weighted Laplace transforms. (English summary) **94i:44001**

40E10 Growth estimates

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Ruscheweyh, Stephan Geometric properties of the Cesàro means. **94i:40008**

40E15 Lacunary inversion theorems

Items with secondary classifications in 40E15

Shcherbina, N. V. Traces of pluriharmonic functions on the boundaries of analytic varieties. **94c:32005**

40E20 Tauberian constants

Items with secondary classifications in 40E20

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40F05 Absolute and strong summability

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— Factors for $|\overline{N}, p_n; \delta|_k$ summability of infinite series. (English summary) **94i:40007**
— A note on two absolute summability methods. (English summary) **94j:40009**
— A note on two absolute summability methods. (English summary) **94j:40008**
— A note on absolute summability methods. (English summary) **94j:40010**
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— On absolute summability factors. **94f:40010**
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Dikshit, H. P. (*with* Fridy, J. A.) Some absolutely effective product methods. (English summary) **94j:40012**
Fridy, J. A. *see* **Dikshit, H. P., 94j:40012**
Orhan, C. (*with* Çakar, Ö.) Almost A-boundedness and absolute almost summability. (English summary) **94g:40010**
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— On the absolute summability factors of infinite series. (English summary) **94g:40006**
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Dikshit, G. D. On absolute Riesz and absolute Nörlund summability. **94a:40005**
Fridy, J. A. (*with* Orhan, C.) Lacunary statistical convergence. (English summary) **94j:40014**
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Leindler, László (*with* Meir, Amram) General results on strong approximation by orthogonal series. **94d:42042**
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Li, Luo Qing Strong approximation of spherical functions by Cesàro means. (English summary) **94j:42020**
Maddox, Ivor J. The algebra of strongly bounded sequences. **94h:40013**
Meir, Amram *see* **Leindler, László, 94d:42042**; **94d:42043** *and* **94i:42009**
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Sarıgöl, M. Ali On the absolute Cesàro summability factors of infinite series. (English summary) **94h:40011**
Sharma, Sushil (*with* Patidar, S. C.) On absolute Cesàro summability of Laplace series. (Hindi. English and Hindi summaries) **94c:40002**
— (*with* Mishra, S.) Absolute Cesàro summability of Fourier-Laguerre series. (Hindi. English and Hindi summaries) **94c:40003**
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— Multipliers for the φ-$|C, \alpha|_k$ summability of infinite series. (English summary) **94i:40004**
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Szalay, I. On the connection among the ordinary, strong and absolute Cesàro summabilities of double series. **94k:40002**

40Gxx Special methods of summability

40G05 Cesàro, Euler, Nörlund and Hausdorff methods

Borwein, David Nörlund operators on l_p. (English summary) **94a:40006**

Choudhary, B. (*with* Mishra, S. K.) A note on the consistency of limitation methods. **94m:40007**
Kumar, Arun Absolute total effectiveness of a product method. **94e:40009**
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Ruscheweyh, Stephan Geometric properties of the Cesàro means. **94i:40008**
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— (*with* Mishra, S.) Absolute Cesàro summability of Fourier-Laguerre series. (Hindi. English and Hindi summaries) **94c:40003**
Tietz, Hubert (*with* Zeller, Karl) On the Knopp-Schnee theorem. **94h:40012**
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Bor, Hüseyin On the strong boundedness of infinite series. (English summary) **94i:40006**
— Factors for $|\overline{N}, p_n; \delta|_k$ summability of infinite series. (English summary) **94i:40007**
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— On absolute weighted mean summability methods. **94f:40008**
— On absolute summability factors. **94f:40010**
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Das, Gokulananda (*with* Mohapatro, Premalata) On absolute quasi-Nörlund means. **94k:40003**
Dikshit, G. D. On absolute Riesz and absolute Nörlund summability. **94a:40005**
Gupta, B. L. (*with* Pudmavati) On the absolute Hausdorff summability of Fourier series. (Hindi. English and Hindi summaries) **94g:42008**
Ito, Takashi *see* **Okada, Nolio, 94b:46017**
Jena, Subas Chandra (*with* Mishra, Rashmi) Generalised absolute Cesàro summability of a factored conjugate series. **94e:42005**
Khan, Mohammad Kazim Statistical methods in analysis. II. Optimal constants of probability operators. (English summary) **94k:60160**
Luh, Wolfgang (*with* Stadtmüller, Karin) The zero distribution of Nörlund transforms of power series. (English summary) **94m:30005**
Máté, Attila Almost everywhere summability of orthogonal polynomial expansions on the unit circle. (English summary) **94a:42052**
Mishra, Rashmi *see* **Jena, Subas Chandra, 94e:42005**
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Móricz, Ferenc (*with* Siddiqi, Abul Hasan) Approximation by Nörlund means of Walsh-Fourier series. (English summary) **94a:42033**
Németh, Z. On the generalized Cesàro summability. **94f:40005**
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Pathak, Ashutosh (*with* Sakalle, Maneesha) On the degree of approximation of a function by the Nörlund means of Legendre expansion. (Hindi. English and Hindi summaries) **94i:42035**
Prakash, Ved (*with* Dalela, A. K.) On the absolute Nörlund summability of a series related to Fourier series. (English summary) **94j:42017**
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— On $|T|_k$ summability and absolute Nörlund summability. (English summary) **94b:40005**
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40G10 Abel, Borel and power series methods

Müller, Jürgen[3] On numerical analytic continuation and convergence acceleration by summability methods. (English summary) **94j:40013**

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Canille Martins, J. C. (*with* Marmi, Stefano; Turchetti, Giorgio) Resurgence of a majorant series arising in the normalization of symplectic maps. (English and Italian summaries) **94k:58132**
Fruchard, Augustin Prolongement analytique et systèmes dynamiques discrets. (English summary) [Analytic continuation and discrete dynamical systems] **94e:30019**
Ishiguro, Kazuo (*with* Tietz, Hubert) Tauber-Sätze für $J_{p\lambda}$-Verfahren. (English summary) [Tauber theorems for $J_{p\lambda}$-methods] **94m:40005**
Marmi, Stefano *see* **Canille Martins, J. C.; et al., 94k:58132**
Nosmas, J.-C. *see* **Candelpergher, B.; et al., 94f:34104**
Pham, F. *see* **Candelpergher, B.; et al., 94f:34104**
Stadtmüller, Ulrich Tauberian constants for power series methods in summability. (English summary) **94k:40008**
Tietz, Horst Zur Summierbarkeit von Faber-Reihen. [On the summability of Faber series] **94f:30006**
Tietz, Hubert *see* **Ishiguro, Kazuo, 94m:40005**
Turchetti, Giorgio *see* **Canille Martins, J. C.; et al., 94k:58132**

40G99 None of the above, but in this section

Fridy, J. A. (*with* Orhan, C.) Lacunary statistical convergence. (English summary) **94j:40014**
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Kantawala, P. S. (*with* Agrawal, S. R.; Patel, C. M.) On the Riesz summability of orthogonal series. (Serbo-Croatian summary) **94f:42044**
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Sarıgöl, M. Ali A short proof of Levi's theorem on rearrangements of convergent series. (English and Turkish summaries) **94k:40005**

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40J05 Summability in abstract structures [see also 43A55, 46A35, 46B15]

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Bezanilla López, Arnoldo Some classes of matrix series and their asymptotic behavior. (Spanish. English and Spanish summaries) **94k:40009**
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— An example of a group convergence with unique sequential limits which cannot be associated with a Hausdorff topology. **94h:40017**
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Natarajan, P. N. Characterization of some special classes of infinite matrices over non-Archimedean fields. (English summary) **94g:40014**
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Fernández, Carmen A note on absolutely summable sequences in (LF)-spaces. (English summary) **94h:46002**
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41-XX Approximations and expansions {For all approximation theory in the complex domain, see 30E05 and 30E10; for all trigonometric approximation and interpolation, see 42A10 and 42A15; for numerical approximation, see 65Dxx.}

41-01 Instructional exposition (textbooks, tutorial papers, etc.)

Boyanov, Borislav D. (*with* Hakopian, H. A.; Sahakian, A. A.) ★ Spline functions and multivariate interpolations. (English summary) **94k:41001**
Hakopian, H. A. *see* **Boyanov, Borislav D.; et al., 94k:41001**
Sahakian, A. A. *see* **Boyanov, Borislav D.; et al., 94k:41001**

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Akhiezer, N. I. ★ Theory of approximation. (English summary) **94b:01041**
(Hyman, Charles J.) *see* **Akhiezer, N. I., 94b:01041**
Voloshina, I. A. An optimal quadrature formula. (Russian) **94b:41024**

41-02 Research exposition (monographs, survey articles)

(Berry, J.) *see* **Timan, A. F., 94j:41001**
(Cossar, J.) *see* **Timan, A. F., 94j:41001**
Schumaker, Larry L. ★ Spline functions: basic theory. **94d:41001**
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Akopyan, A. A. (*with* Saakyan, A. A.) Multidimensional splines and polynomial interpolation. (Russian) **94k:41047**
Chui, Charles K. Wavelets and signal analysis. (English summary) **94f:41012**
Gutknecht, Martin H. Block structure and recursiveness in rational interpolation. (English summary) **94b:41012**
Isac, George (*with* Postolică, Vasile) ★ The best approximation and optimization in locally convex spaces. (English summary) **94c:49002**
Jetter, Kurt Multivariate approximation from the cardinal interpolation point of view. (English summary) **94d:41004**
Light, W. A. Ridge functions, sigmoidal functions and neural networks. (English summary) **94h:41072**
Lorentz, Rudolph A. ★ Multivariate Birkhoff interpolation. **94h:41001**
Lyche, Tom Knot removal for spline curves and surfaces. (English summary) **94k:41018**
Postolică, Vasile *see* **Isac, George, 94c:49002**
Saakyan, A. A. *see* **Akopyan, A. A., 94k:41047**
Sun, Jia Chang Some results on the field of spline theory and its applications. (*see* **94m:65007**)
Totik, Vilmos Approximation by algebraic polynomials. (English summary) **94d:41014**
Wang, Ren Hong Approximation theory and spline function. (*see* **94m:65007**)

41-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 41-03

Butzer, P. L. (*with* Nessel, Rolf Joachim) Aspects of de La Vallée-Poussin's work in approximation and its influence. **94e:01020**
Nessel, Rolf Joachim *see* **Butzer, P. L., 94e:01020**

41-06 Proceedings, conferences, collections, etc.

(Braess, Dietrich) *see* **Numerical methods in approximation theory, 94k:41002**
(Cuyt, Annie) *see* **Rational approximation theory, 94m:41001**
(Gonchar, A. A.) *see* **Progress in approximation theory, 94e:41001**
(Saff, E. B.) *see* **Progress in approximation theory, 94e:41001**
(Schumaker, Larry L.) *see* **Numerical methods in approximation theory, 94k:41002**
(Stepanets, A. I.) *see* **Fourier series: theory and applications, 94c:41001**

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Conference:
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Numerical Methods in Approximation Theory ★ Numerical methods in approximation theory. Vol. 9. **94k:41002**
Fourier series: theory and applications ★ Ряды Фурье: теория и приложения. (Russian) [Fourier series: theory and applications] **94c:41001**
Kamenets-Podol'skiĭ ★ Ряды Фурье: теория и приложения. (Russian) [Fourier series: theory and applications] **94c:41001**
Numerical methods in approximation theory ★ Numerical methods in approximation theory. Vol. 9. **94k:41002**
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School:
Fourier Series: Theory and Applications ★ Ряды Фурье: теория и приложения. (Russian) [Fourier series: theory and applications] **94c:41001**
Special Issue:
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Tampa, FL ★ Progress in approximation theory. **94e:41001**

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(Rassias, Themistocles M.) *see* **Topics in polynomials of one and several variables and their applications, 94m:00020**
(Srivastava, Hari M.) *see* **Topics in polynomials of one and several variables and their applications, 94m:00020**
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Biography:
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Topics in polynomials of one and several variables and their applications ★ Topics in polynomials of one and several variables and their applications. **94m:00020**

41A05 Interpolation [see also 42A15 and 65D05]

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— (*with* Wong, Patricia J. Y.) Explicit error bounds for the derivatives of piecewise-Hermite interpolation in L_2-norm. (English summary) **94m:41002**
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Balázs, Katherine (*with* Kilgore, T.) Interpolation and simultaneous mean convergence of derivatives. **94c:41002**
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Baratchart, Laurent (*with* Zerner, Martin) On the recovery of functions from pointwise boundary values in a Hardy-Sobolev class of the disk. (English summary) **94d:41002**
Ber, M. G. (*with* Malozëmov, V. N.) Interpolation of discrete periodic data. (Russian. Russian summary) **94e:41003**
Berman, D. L. Necessary and sufficient conditions for the convergence of extended interpolation processes of higher order in the L_p metric. (Russian) **94e:41004**
— Hermite-Fejér interpolation processes with boundary conditions. (Russian) **94a:41001**
Brabec, Jiří A note on one of the Bernstein theorems. (English and Czech summaries) **94i:41002**
Braess, Dietrich (*with* Pinkus, Allan) Interpolation by ridge functions. (English summary) **94d:41003**
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— (*with* Chui, Charles K.) A note on the local stability of translates of radial basis functions. (English summary) **94f:41001**
Buike, M. Z. (*with* Buikis, A. A.) A formula for the explicit dependence of a cubic spline on the values of the function being interpolated. (Russian. German, Russian and Latvian summaries) (*see* **94d:00014**)
Buikis, A. A. *see* **Buike, M. Z., (94d:00014)**
Byrne, Graeme J. (*with* Mills, T. M.; Smith, Simon J.) On Hermite-Fejèr type interpolation on the Chebyshev nodes. (English summary) **94a:41003**
Calvi, Jean Paul Polynomial interpolation with prescribed analytic functionals. (English summary) **94j:41002**
Carnicer, J. M. Rational interpolation with a single variable pole. (English summary) **94a:41004**
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le Cessie, S. (*with* Balder, Erik J.) A note on monotone interpolation and smoothing splines. (English summary) **94m:41003**
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Ivashchuk, Ya. G. An existence theorem for 2-snakes for finite-order interpolation classes. (Russian. Russian summary) **94a:41007**
— k-snakes in interpolation classes of finite-order functions. (Ukrainian. Russian and Ukrainian summaries) **94e:41007**
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Dinh Dung On optimal recovery of multivariate periodic functions. **94m:41045**
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Korneichuk, N. P. Optimal coding of functions. **94d:41042**
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Manukyan, V. R. On the moment problem for indexation classes of distributions. (Russian. Armenian summary) **94j:44012**
Netrusov, Yu. V. Nonlinear approximation of functions in Besov-Lorentz spaces in the uniform metric. (Russian. Russian summary) **94d:41025**
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Triebel, Hans Approximation numbers and entropy numbers of embeddings of fractional Besov-Sobolev spaces in Orlicz spaces. **94g:46042**
Wilderotter, Klaus n-widths of H^p-spaces in $L_q(-1,1)$. (English summary) **94c:46051**

41A50 Best approximation, Chebyshev systems

Babenko, V. F. (*with* Kofanov, V. A.; Pichugov, S. A.) Approximation of functions of a discrete argument. (Russian. Russian summary) **94d:41045**
Bartelt, Martin W. (*with* Swetits, John J.) New classes of local Lipschitz constants for the best approximation operator on finite sets. **94e:41040**
— (*with* Swetits, John J.) The strong derivative of the best approximation operator. **94i:41035**

Brudnyi, Yu. A. The phenomenon of "better than best" approximation. **94h:41059**
Brui, I. N. Saturation classes of some methods of summation of Faber series. (Russian. Russian summary)
Danielyan, È. A. (*with* Movsisyan, G. S.) On Chebyshev's extremal problem on convex classes of distributions. (Russian. Armenian summary) **94g:41049**
Deutsch, Frank (*with* Zhong, Jun) Best comonotone approximation. (English summary) **94m:41043**
Dunham, Charles B. (*with* Zhu, Chang Zhong) Continuous dependence of the local strong unicity constant on domain. (English summary) **94j:41020**
— *see also* **Shi, Ying Guang, 94h:41061**
Egger, A. G. (*with* Taylor, G. D.) Rate of convergence of the discrete Pólya-1 algorithm. (English summary) **94m:41044**
Fülöp, János (*with* Prill, Mária) On the minimax approximation in the class of the univariate piecewise constant functions. (English summary) **94a:41047**
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Glushko, V. N. On the uniqueness of the element of best one-sided L_1-approximation in a Chebyshev subspace. (Russian. Russian summary) **94b:41022**
He, Chun Yan The best discrete approximation method for second-order differential operators in W_2^3 spaces. (Chinese. English and Chinese summaries) **94j:41021**
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Johnson, Mary A. (*with* Taaffe, Michael R.) Tchebycheff systems for probabilistic analysis. (English summary) **94k:41042**
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Kamal, Aref Approximation by compact operators over spaces of continuous functions. (English summary) **94d:41046**
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Kofanov, V. A. *see* **Babenko, V. F.; et al., 94d:41045**
Kolesnikov, S. V. On the continuity of a function of best approximation from the class H^∞ for functions that are continuous on the circle. (Russian. Russian summary) **94k:41043**
Labsker, L. G. (*with* Raşa, I.) Tchebycheff systems: some criteria and properties. I. (Romanian summary)
Mevissen, Herbert (*with* Nessel, Rolf Joachim) Riemann integrability and the best approximation by trigonometric polynomials. **94f:41031**
Movsisyan, G. S. *see* **Danielyan, È. A., 94g:41049**
Neizvestnyi, M. M. The discrete problem of one-sided Chebyshev approximation. (Russian. Russian summary)
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Prill, Mária *see* **Fülöp, János, 94a:41047**
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Pustovoitov, N. N. The multidimensional Jackson theorem in the space L_p. (Russian. Russian summary) **94d:41047**
Raşa, I. *see* **Labsker, L. G.**
Romanov, V. S. Characterization of the Chebyshev spline of best approximation in the nonsymmetric norm of $L_1(a,b)$ with a positive weight for a class of continuous functions. (Russian) **94a:41048**
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Shi, Ying Guang (*with* Dunham, Charles B.) Application of Chebyshev sets to multiproducts. (English summary) **94h:41061**
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Temlyakov, V. N. Estimates for the best bilinear approximations of functions and approximation numbers of integral operators. (Russian. Russian summary) **94a:41049**
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Yang, Chengmin WT measure vector spaces. (Russian summary) **94k:41044**
Zhong, Jun Best copositive approximation. (English summary) **94d:41049**
— Best restricted range approximation. (English summary) **94d:41050**
— *see also* **Deutsch, Frank, 94m:41043**
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Bacopoulos, A. (*with* Botsaris, C. A.) An efficient blend of the first algorithm of Remes. (English summary) **94d:41031**
Berdyshev, V. I. Polynomial approximation related to navigation over geodesic fields. (Russian) **94b:41006**
Bojadziev, P. (*with* Khadzhiiski, Vanya Kh.) Jentzsch type theorem for the zeros of a sequence of best rational approximants. **94b:30044**
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Brosowski, Bruno (*with* da Silva, Antonio R.) Scalarization of vectorial relations applied to certain optimization problems. (English summary) **94m:90095**
Brown, Lawrence G. (*with* Lucier, Bradley J.) Best approximations in L^1 are near best in L^p, $p<1$. **94b:41007**
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Chen, Guang Rong (*with* Wuga, Ridi) Simultaneous best approximation in Orlicz spaces. (Chinese. English summary)
Davydov, O. V. (*with* Kofanov, V. A.; Pichugov, S. A.) On the massiveness of sets of extremals in problems of the approximation of functional classes. (Russian. Russian summary) **94c:41029**
Detaille, C. (*with* Thiran, J.-P.) Complex Zolotarev polynomials on the real interval $[-1,1]$. (English summary) **94e:41013**
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Farkova, N. A. Application of Faber polynomials to the calculation of eigenvalues. (Russian) **94d:65027**
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Janc, Mirko On upper semicontinuity in good coapproximation. (English summary) **94m:41047**
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Kohlenbach, Ulrich New effective moduli of uniqueness and uniform a priori estimates for constants of strong unicity by logical analysis of known proofs in best approximation theory. (English summary) **94k:41054**
Korevaar, J. (*with* Meyers, J. L. H.) Massive coalescence of nodes in optimal Chebyshev-type quadrature on $[-1,1]$. (English summary) **94h:41064**
Korzh, S. A. (*with* Ovcharenko, I. E.; Ugrinovskii, R. A.) P. L. Chebyshev's recursion: some analytic and computational aspects. (Russian. English and Ukrainian summaries) **94j:26027**
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Li, Xin[3] On the size of polynomials with curved majorant. (English summary) **94m:41016**
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Motornaya, O. V. On the best approximation of differentiable functions by algebraic polynomials in the space L_1. (Russian. Russian summary) **94f:41009**
Németh, Géza ★ Mathematical approximation of special functions. **94k:33004**
Newman, Donald J. (*with* Xu, Yuan) Tchebycheff polynomials on a triangular region. (English summary) **94h:41003**
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Ovcharenko, I. E. *see* **Korzh, S. A.; et al., 94j:26027**
Papageorgiou, Nikolaos S. On best approximations in the Lebesgue-Bochner space $L^1(X)$. (English summary) **94m:41048**
Pérez-Acosta, F. (*with* González-Vera, Pablo; González-Pinto, S.) Some aspects concerning the minimax series. (English summary) **94f:41010**
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Prokhorov, V. A. Approximation of analytic functions by rational functions. (Russian) **94d:30068**
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Rosenthal, William E. *see* **Castellanos, Dario, 94m:65030**
Rudenko, A. A. On the best L_1 approximation of some classes of periodic functions by generalized splines. (Russian. Russian summary) **94d:41018**
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Rustamov, Kh. P. On the approximation of functions on a sphere. (Russian. Russian summary) **94k:41051**
Shapiro, Alexander Existence and differentiability of metric projections in Hilbert spaces. (English summary) **94m:90111**
Shi, Ying Guang L_p $(1\le p\le\infty)$ approximation by an n-dimensional subspace on a set of $n+1$ points. (English summary) **94m:41050**
Shrivastava, M. A best approximation property of discrete quadratic interpolatory splines. (English summary) **94k:41021**
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Sodin, M. L. (*with* Yuditskii, P. M.) Algebraic solution of E. I. Zolotarev and N. I. Akhiezer problems on polynomials that deviate least from zero. (Russian) **94e:41019**
Sommer, Manfred (*with* Strauss, Hans) Order of strong uniqueness in best L_∞-approximation by spline spaces. **94e:41024**
Spagl, C. On complex valued functions with strongly unique best Chebyshev approximation. (English summary) **94d:30069**

Stahl, Herbert Best rational approximants to Markov functions. **94f:30053**
Strauss, Hans Uniform reciprocal approximation subject to coefficient constraints. (English summary) **94g:41036**
— *see also* **Sommer, Manfred, 94e:41024**
Thiran, J.-P. (*with* Istace, M.-P.) Optimality and uniqueness conditions in complex rational Chebyshev approximation with examples. (English summary) **94g:30036**
— *see also* **Detaille, C., 94e:41013**
Tóth, János (*with* Zsilinsky, Laslo) Insertion of $E_p(\lambda)$ to L_∞ for the best approximation in Haar's system of functions if $0 < p < 1$. **94d:41034**
Ugrinovskii, R. A. *see* **Korzh, S. A.; et al., 94j:26027**
Vycheslavov, N. S. (*with* Ramazanov, A.-R. K.) On the degree of rational functions of best approximation in $L_p(\mathbf{R}^m)$. (Russian) **94f:41017**
Wang, Guan Min The best approximation constant for the Matsuoka operator $J_{n,3,2}(f;x)$. (Chinese. English and Chinese summaries) **94c:41033**
Watson, G. A. Chebyshev approximation on the surface of the unit ball. (English summary) **94d:41052**
Williams, Jack (*with* Kalogiratou, Z.) Nonlinear Chebyshev fitting from the solution of ordinary differential equations. (English summary) **94m:65029**
Wu, Xiang (*with* Zhou, Song Ping) A counterexample in comonotone approximation in L^p space. **94g:41011**
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Zaderei, P. V. Approximation of $(\overline{\psi},\overline{\beta})$-differentiable periodic functions of several variables. (Russian. Russian and Ukrainian summaries) **94j:42035**
Zhou, Song Ping *see* **Wu, Xiang, 94g:41011**
Zhu, Jian Xin A study on using the weighted least-squares method to find Chebyshev solutions. (Chinese. English and Chinese summaries) **94j:65022**
— Using the weighted least-squares method to find Chebyshev solutions. (Chinese. English and Chinese summaries)
Zhukina, E. I. Membership of (ψ,β)-derivatives in Lebesgue spaces. (Russian. Russian summary) (*see* **94c:41001**)
Zó, Felipe (*with* Favier, Sergio) The natural best approximation of Landers and Rogge in Orlicz spaces. (English summary) **94i:41029**
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41A52 Uniqueness of best approximation

Guo, Yuan Ming Strong uniqueness of nonlinear approximation. (Chinese. English and Chinese summaries) **94a:41050**
Peng, Yun Ke The theory of constrained uniformly best approximation. (Chinese. English and Chinese summaries) **94g:41051**
Rakhmetov, N. K. Uniqueness of a polynomial of the best L-approximation of discontinuous functions. (Russian. Russian summary) **94d:41051**

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Lewicki, Grzegorz Strong unicity criterion in some space of operators. (English summary) **94k:41055**
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Smarzewski, Ryszard Best regularized uniform approximations. **94g:41050**
Sommer, Manfred (*with* Strauss, Hans) Order of strong uniqueness in best L_∞-approximation by spline spaces. **94e:41024**
Strauss, Hans On one-sided L^1-approximation and linear semi-infinite optimization. (English summary) **94c:41027**
— Uniqueness in linear semi-infinite optimization. (English summary) **94i:90151**
— *see also* **Sommer, Manfred, 94e:41024**
Yang, Chengmin Uniqueness of best approximation with coefficient constraints. (English summary) **94k:41029**
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41A55 Approximate quadratures

Bloom, Thomas (*with* Lubinsky, Doron S.; Stahl, Herbert) What distributions of points are possible for convergent sequences of interpolatory integration rules? (English summary) **94f:41033**
— (*with* Lubinsky, Doron S.; Stahl, Herbert) Distribution of points for convergent interpolatory integration rules on $(-\infty,\infty)$. (English summary) **94f:41034**
Boyanov, Borislav D. (*with* Grozev, Georgi R.; Zhensykbaev, A. A.) Generalized Gaussian quadrature formulas for weak Tchebyshev systems. **94h:41062**
Brass, Helmut Error bounds based on approximation theory. (English summary) **94c:41036**
Bultheel, Adhemar (*with* González-Vera, Pablo; Hendriksen, Erik; Njåstad, Olav) Orthogonality and quadrature on the unit circle. (English summary) (*see* **94m:42003**)
De Villiers, J. M. A nodal spline interpolant for the Gregory rule of even order. **94h:41063**
Dimitrov, Dimitar K. Lacunary quadrature formulae and interpolation singularity. (English summary) **94j:41022**
González-Vera, Pablo *see* **Bultheel, Adhemar; et al., (94m:42003)**
Grozev, Georgi R. *see* **Boyanov, Borislav D.; et al., 94h:41062**
Hendriksen, Erik *see* **Bultheel, Adhemar; et al., (94m:42003)**
Korevaar, J. (*with* Meyers, J. L. H.) Massive coalescence of nodes in optimal Chebyshev-type quadrature on $[-1,1]$. (English summary) **94h:41064**
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Voloshina, I. A. An optimal quadrature formula. (Russian) **94b:41024**
Watson, G. A. Chebyshev approximation on the surface of the unit ball. (English summary) **94d:41052**
Xu, Yuan A characterization of positive quadrature formulae. (English summary) **94h:41067**
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Zwick, D. Optimal quadrature for n-convex functions. **94g:41052**

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Acu, Dumitru The use of quadrature formulae in obtaining inequalities. (Romanian summary) **94e:26027**
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Bultheel, Adhemar (*with* González-Vera, Pablo; Hendriksen, Erik; Njåstad, Olav) Orthogonal rational functions and quadrature on the unit circle. (English summary) **94a:42022**
Büttgenbach, Bernhard (*with* Lüttgens, Gerald; Nessel, Rolf Joachim) On some problems concerning best constants for the midpoint and trapezoidal rule. (English summary) **94d:26002**
— (*with* Lüttgens, Gerald; Nessel, Rolf Joachim) An explicit representation of the remainder of some Newton-Cotes formulas in terms of higher order differences. (English summary) **94j:65032**
Dryanov, Dimiter P. Optimal quadrature formulae for entire functions with 2-periodic data. **94e:65029**
Ehrich, Sven Error bounds for Gauss-Kronrod quadrature formulae. (English summary) **94e:65030**
Förster, Klaus-Jürgen On quadrature formulae near Gaussian quadrature. (English summary) **94b:65037**
— On a theorem of C. Posse concerning Gaussian quadrature of Chebyshev type. (English summary) **94g:65029**
Gatermann, Karin Linear representations of finite groups and the ideal theoretical construction of G-invariant cubature formulas. (English summary) **94g:65030**
González-Pinto, S. (*with* González-Vera, Pablo; Santos León, Juan C.) On extrapolation of Jagerman and Stetter rules. (English summary) **94e:65031**
— *see also* **González-Vera, Pablo; et al., 94m:65045**
González-Vera, Pablo (*with* González-Pinto, S.; Santos León, Juan C.) A note on certain generalizations of the midpoint rule. (English summary) **94m:65045**
— *see also* **Bultheel, Adhemar; et al., 94a:42022** *and* **González-Pinto, S.; et al., 94e:65031**
Hendriksen, Erik *see* **Bultheel, Adhemar; et al., 94a:42022**
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Lüttgens, Gerald *see* **Büttgenbach, Bernhard; et al., 94d:26002** *and* **94j:65032**
Milovanović, Gradimir V. On polynomials orthogonal on the semicircle and applications. (English summary) **94k:42040**
Mysovskikh, I. P. Construction of quadrature formulas of highest trigonometric degree of precision. **94j:65036**
Nessel, Rolf Joachim *see* **Büttgenbach, Bernhard; et al., 94d:26002** *and* **94j:65032**
Njåstad, Olav *see* **Bultheel, Adhemar; et al., 94a:42022**
Osipenko, K. Yu. Minimal Blashke [Blaschke] products and optimal quadrature formulae in H^∞. **94e:30014**
Peherstorfer, Franz On positive quadrature formulas. (English summary) **94k:65035**
von Petersdorff, T. A short proof for Romberg integration. **94f:41019**
Petras, Knut Asymptotics for the remainder of a class of positive quadratures for integrands with an interior singularity. (English summary) **94i:65038**
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Ramazanov, M. D. Universal optimality of lattice cubature formulas. (Russian) **94b:65042**
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Sakai, Makoto Regularity of boundaries of quadrature domains in two dimensions. (English summary) **94c:30054**
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Stancu, Dumitru D. (*with* Stancu, Felicia) Quadrature rules obtained by means of interpolatory linear positive operators. **94a:41043**
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Stenger, Frank ★ Numerical methods based on sinc and analytic functions. (English summary) **94k:65003**
Sweldens, Wim (*with* Piessens, Robert) Calculation of the wavelet decomposition using quadrature formulae. (English summary) **94i:42048**
Van Assche, Walter (*with* Vanherwegen, Ingrid) Quadrature formulas based on rational interpolation. (English summary) **94a:65014**
Vanherwegen, Ingrid *see* **Van Assche, Walter, 94a:65014**
Venturino, Ezio Using Chebyshev polynomials for the numerical solution of singular integral equations of the second kind. (English summary) (*see* **94m:42003**)

41A58 Series expansions (e.g. Taylor, Lidstone series, but not Fourier series)

Horwitz, Alan Means and averages of Taylor polynomials. **94g:41053**
Martin, Clyde Franklin (*with* Shubov, V. I.) Natural exponential families of probability distributions and exponential-polynomial approximation. (English summary) **94j:41023**
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Arakelyan, N. U. Approximation by entire functions and analytic continuation. (English summary) **94m:30050**
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Bezuglaya, L. (*with* Katsnel'son, V. È.) The sampling theorem for functions with limited multi-band spectrum. (English summary) **94k:94003**
Choi, K. P. On the medians of gamma distributions and an equation of Ramanujan. (English summary) **94g:62025**
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Estrada, Ricardo (*with* Kanwal, Ram P.) Taylor expansions for distributions. (English summary) **94a:46047**
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Barrios, Javier A. (*with* Betancor, Jorge J.) On asymptotic expansions of Krätzel's integral transforms. (English summary) **94a:41051**
Berry, Michael Victor (*with* Howls, C. J.) Unfolding the high orders of asymptotic expansions with coalescing saddles: singularity theory, crossover and duality. (English summary) **94j:41024**
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Ismail, Mourad E. H. (*with* Masson, David R.; Saff, E. B.) A minimal solution approach to polynomial asymptotics. (English summary) (*see* **94m:42003**)
Jiang, Tian Zi The complete asymptotic expansion for the approximation of Lipschitz functions by Hermite-Fejér interpolation polynomials. (Chinese. English and Chinese summaries) **94k:41046**
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Elbert, Árpád (*with* Laforgia, Andrea; Rodonò, Lucia G.) Asymptotics for the nth-degree Laguerre polynomial evaluated at n. (English summary) **94e:33010**
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Gatteschi, Luigi *see* **Baratella, P., 94e:33007**
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Gronau, Detlef An asymptotic formula for the iterates of a function. (English summary) **94a:26008**
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Han, Guo Qiang Asymptotic formulas for interpolation by a class of even splines and their superconvergence. (Chinese. Chinese summary) **94e:41023**
Ikromov, I. A. On a theorem of Colin de Verdière. (Russian) **94j:58169**
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— (*with* Li, H.) Asymptotic expansions for second-order linear difference equations. II. (English summary) **94i:39004**

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Abouir, J. (*with* Cuyt, Annie) Multivariate partial Newton-Padé and Newton-Padé type approximants. (English summary) **94d:41054**
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Buhmann, Martin D. Discrete least squares approximation and prewavelets from radial function spaces. (English summary) **94i:41037**
Buslaev, A. P. The generalized Rayleigh spectra and Kolmogorov n-widths. (English summary) **94f:41035**
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DeVore, Ronald A. (*with* Petrushev, P.; Yu, Xiang Ming) Nonlinear wavelet approximation in the space $C(\mathbf{R}^d)$. (English summary) **94h:41070**
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Dol'nikov, V. L. On a criterion for a function to be piecewise polynomial. (Russian) **94g:41055**
Fischer, A. (*with* Stens, R. L.) Generalized sampling approximation of multivariate signals; inverse approximation theorems. **94g:41056**
Galeev, È. M. Bernstein-Nikol'skiĭ inequalities for functions of several variables that are best with respect to the choice of harmonics. (Russian. Russian summary) **94g:41057**
Halton, E. J. (*with* Light, W. A.) On local and controlled approximation order. (English summary) **94i:41038**

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Ito, Yoshifusa Approximations of differentiable functions and their derivatives on compact sets by neural networks. (English summary) **94h:41071**

Jia, Rong Qing (*with* Micchelli, Charles A.) On linear independence for integer translates of a finite number of functions. (English summary) **94e:41044**

Jiang, Miaohua On Johnson's example of a nonconvex Chebyshev set. (English summary) **94f:41036**

Kuznetsova, T. A. A bounded group of operators and problems of approximation in doubly connected complex domains with smooth boundaries. (Russian) **94c:41038**

Light, W. A. Ridge functions, sigmoidal functions and neural networks. (English summary) **94h:41072**

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Lin, V. Ya. (*with* Pinkus, Allan) Fundamentality of ridge functions. (English summary) **94k:41049**

Lizorkin, P. I. On the approximation of functions on the sphere σ. On the spaces $B^{\alpha}_{p,q}(\sigma)$. (Russian) **94m:41046**

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Qi, Dong Xu (*with* Schaback, Robert) Limit of Bernstein-Bézier curves for periodic control nets.

Quak, E. (*with* Sivakumar, N.; Ward, J. D.) Least squares approximation by radial functions. (English summary) **94g:41059**

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Wu, Zong Min Convergence of interpolation by radial basis functions. (Chinese. Chinese summary) **94i:41040**

Xu, Yuan (*with* Light, W. A.; Cheney, E. W.) Constructive methods of approximation by ridge functions and radial functions. (English summary) **94f:41037**

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Allouche, H. (*with* Cuyt, Annie) Well-defined determinant representations for nonnormal multivariate rational interpolants. (English summary) **94k:65012**

Ammar, H. (*with* Cherruault, Yves) Approximation of a several variables function by a one variable function and application to global optimization. (English summary) **94i:65077**

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Ball, Keith (*with* Sivakumar, N.; Ward, J. D.) On the sensitivity of radial basis interpolation to minimal data separation distance. (English summary) **94g:41001**

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de Boor, Carl (*with* Ron, Amos) Fourier analysis of the approximation power of principal shift-invariant spaces. (English summary) **94c:41023**

— (*with* Ron, Amos) The exponentials in the span of the multi-integer translates of a compactly supported function; quasi-interpolation and approximation order. (English summary) **94e:41021**

— Multivariate piecewise polynomials. **94g:41012**

— Approximation order without quasi-interpolants. (English summary) **94i:41042**

— (*with* Jia, Rong Qing) A sharp upper bound on the approximation order of smooth bivariate PP functions. (English summary) **94e:41012**

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— (*with* Dyn, Nira) Spectral convergence of multiquadric interpolation. (English summary) **94c:41028**

Butzer, P. L. (*with* Fischer, A.; Stens, R. L.) Generalized sampling approximation of multivariate signals; theory and some applications. **94i:41011**

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Ganzburg, M. I. Markov-type theorems for the approximation of radial functions in an integral metric. (Russian) **94j:41017**

Gasca, Mariano (*with* Mühlbach, G.) Multivariate polynomial interpolation under projectivities. II. Neville-Aitken formulas. (English summary) **94b:65020**

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Goubet, Olivier Finite element multilevel approximation of a function and applications. (English summary) **94m:41031**

Gróf, J. Approximation on the whole plane. **94d:41035**

Gu, Chuan Qing (*with* Zhu, Gong Qin) A Thiele vector continued fraction expansion for two-variable functions and its approximation properties. (Chinese. English summary) **94k:41045**

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Li, Chun² Characterization of BMO^{fq}_{p}-functions by generalized Carleson measure. **94a:42020**

Light, W. A. Techniques for generating approximations via convolution kernels. (English summary) **94j:65021**

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Lorentz, Rudolph A. ★ Multivariate Birkhoff interpolation. **94h:41001**

Lu, Xu Guang On shape preserving extension and approximation of functions. (English summary) **94a:41016**

Luquín Martínez, Francisco Uniform Diophantine approximation of functions differentiable finitely many times. (Spanish) **94d:11059**

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41A65 Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)

Al-Zamel, Ali Best approximation in some function spaces. (English and Arabic summaries) **94k:41052**
— (*with* Khalil, R.) Alternation theorem for $C(I, X)$ and application to best local approximation. (English summary) **94i:41041**
— (*with* Khalil, R.) Proximinality and unicity in vector-valued function spaces. (English summary) **94k:41053**
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Badea, Cătălin (*with* Cottin, Claudia) Korovkin-type theorems for generalized Boolean sum operators. **94c:41039**
Bezhaev, A. Yu. Reproducing mappings of Hilbert spaces and the characterization of operator splines. (Russian. Russian summary) **94b:41026**
de Boor, Carl Approximation order without quasi-interpolants. (English summary) **94i:41042**
de la Cal, Jesús (*with* Luquín Martínez, Francisco) Probabilistic methods in approximation theory: a general setting. **94h:41074**
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Davydov, O. V. Fixing the values of sequences of seminorms. (Russian. Russian and Ukrainian summaries) **94e:41045**
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Ganzburg, M. I. Limit theorems in approximation theory. (Russian summary) **94h:41076**
Guo, Yuan Ming Some properties of weakly quasiconvex sets and their applications. (Chinese. English summary) **94h:41077**
He, Jian Xun Bernstein's first summable operators on the special real orthogonal group $SO(n)$. (English summary) **94b:41027**
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— Approximation of functions in L_p spaces. (Russian) **94i:41044**
Janc, Mirko On upper semicontinuity in good coapproximation. (English summary) **94m:41047**
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Kohlenbach, Ulrich New effective moduli of uniqueness and uniform a priori estimates for constants of strong unicity by logical analysis of known proofs in best approximation theory. (English summary) **94k:41054**
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Mustăţa, Costică Extension of Hölder functions and some related problems of best approximation. **94f:41038**
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Narang, T. D. Best coapproximation in metric spaces. (English summary) **94c:41041**
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Nishishiraho, Toshihiko Approximation processes of quasi-positive linear operators. (English summary) **94a:41053**
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Prévost, Marc Dirac masses detection in a density on $[-1, 1]$ from its moments. Applications to singularities of a function. (English summary) **94m:41049**
Prolla, João B. The Weierstrass-Stone theorem in absolute valued division rings. (English summary) **94d:41057**
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Altomare, F. Lototsky-Schnabl operators on compact convex sets and their associated limit semigroups. (English summary) **94c:47044**
Anastassiou, George A. A generalized "K-attainable" inequality related to the weak convergence of probability measures. (English summary) **94c:41022**
Arias, Alvaro (*with* Mascioni, Vania) Best approximations in preduals of von Neumann algebras. (English summary) **94a:46081**
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Demko, Stephen G. Approximation of measures by fractal generation techniques. (English summary) **94f:28008**

Deutsch, Frank (*with* Zhong, Jun) Best comonotone approximation. (English summary) **94m:41043**

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Fang, Gen Sun (*with* Liu, Yong Ping) Average width and optimal interpolation of the Sobolev-Wiener class $W^r_{pq}(\mathbf{R})$ in the metric $L_q(\mathbf{R})$. (English summary) **94h:46047**

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Garrido Carballo, María Isabel (*with* Montalvo Durán, Francisco) On some generalizations of the Kakutani-Stone and Stone-Weierstrass theorems. **94m:46041**

Guo, Yuan Ming Strong uniqueness of nonlinear approximation. (Chinese. English and Chinese summaries) **94a:41050**

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Isac, George (*with* Postolică, Vasile) ★ The best approximation and optimization in locally convex spaces. (English summary) **94c:49002**

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Maĭorov, V. E. Kolmogorov (n, δ)-widths of spaces of smooth functions. (Russian. Russian summary) **94g:41047**

Makarov, Vladimir Leonidovich (*with* Khlobystov, V. V.) Hermitian interpolation of operators in Hilbert spaces. (Russian) **94b:41002**

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Nishishiraho, Toshihiko Convergence of quasi-positive linear operators. **94d:47031**

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Rivière, Alain Arcs de fuite dans les espaces de Hilbert. [Escape arcs in Hilbert spaces] **94d:46022**

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Xiao, Chang Bai Differentiation and best approximation on local fields. (Chinese. English and Chinese summaries) **94h:43004**

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Yang, Chengmin WT measure vector spaces. (Russian summary) **94k:41044**

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41A80 Remainders in approximation formulas

Gautschi, Walter Remainder estimates for analytic functions. (English summary) **94e:41049**

Items with secondary classifications in 41A80

Martin, Clyde Franklin (*with* Shubov, V. I.) Probability measures, Appel polynomials and polynomial approximation. (English summary) **94c:41009**

Shubov, V. I. *see* **Martin, Clyde Franklin, 94c:41009**

41A99 Miscellaneous topics

Gundy, Richard F. (*with* Iribarren, Ileana) Fonctionnelles de variation quadratique et équations de dilatation. (English and French summaries) [Quadratic variation functionals and dilation equations] **94j:41029**

Iribarren, Ileana *see* **Gundy, Richard F., 94j:41029**

Osipenko, K. Yu. (*with* Stessin, Michael I.) Some problems of the optimal recovery of analytic and harmonic functions from inaccurate data. (Russian. English and Russian summaries) **94i:41045**

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Campiti, Michele Convergence of nets of monotone operators between cones of set-valued functions. (English and Italian summaries) **94e:54024**

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Heinrich, Stefan Random approximation in numerical analysis. **94i:65015**

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Kosheleva, G. G. Random interpolation polynomials. (Russian. Russian summary) **94f:42006**

Mabizela, Sizwe (*with* Zhong, Jun) On the best uniform ε-interpolation operator. (English summary) **94f:41028**

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— Erratum: "Generalized cardinal numbers and operations on them" [Fuzzy Sets and Systems **53** (1993), no. 1, 49–85; MR 94b:03098]. **Zhong, Jun** *see* **Mabizela, Sizwe, 94f:41028**

42–XX Fourier analysis

42–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 42–01

Airault, H. *see* **Malliavin, Paul, 94j:28001**
Akhiezer, N. I. ★ Theory of approximation. (English summary) **94b:01041**
Aleksandrov, V. A. ★ Ортогональные многочлены. (Russian. Russian summary) [Orthogonal polynomials] **94h:42035**
Dooijes, Edo H. Conjugate quadrature filters for multiresolution analysis and synthesis. (English summary) **94h:42056**
(Hyman, Charles J.) *see* **Akhiezer, N. I., 94b:01041**
Malliavin, Paul (*with* Airault, H.) ★ Intégration et analyse de Fourier. Probabilités et analyse gaussienne. (French. French summary) [Integration and Fourier analysis. Probability theory and Gaussian analysis] **94j:28001**
Samuélidès, M. (*with* Touzillier, L.) ★ Problèmes d'analyse fonctionnelle et d'analyse harmonique. (French. French summary) [Problems of functional analysis and harmonic analysis] **94f:00004**
Strichartz, Robert S. How to make wavelets. **94e:42044**
Touzillier, L. *see* **Samuélidès, M., 94f:00004**

42–02 Research exposition (monographs, survey articles)

D'yachenko, M. I. Some problems in the theory of multiple trigonometric series. (Russian. Russian summary) **94j:42001**
Lou, Yuan Ren Chinese research results on Walsh overconvergence and their influence in foreign countries. (Chinese. English and Chinese summaries) **94m:42001**
Meyer, Yves ★ Wavelets and operators. (English summary) **94f:42001**
(Moraga, Claudio) *see* **Trends and open questions, 94f:42002**
(Salinger, D. H.) *see* **Meyer, Yves, 94f:42001**
(Strichartz, Robert S.) *see* **Thangavelu, Sundaram, 94i:42001**
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Gibbs, J. Edmund Local and global views of differentiation. (English summary) **94f:42034**
Heijmans, Henk J. A. M. Discrete wavelets and multiresolution analysis. (English summary) **94h:42058**
Hemker, Pieter W. (*with* Koornwinder, Tom H.; Temme, Nico M.) Wavelets: mathematical preliminaries. (English summary) **94h:42059**
Koornwinder, Tom H. The continuous wavelet transform. (English summary) **94i:42044**
— Fast wavelet transforms and Calderón-Zygmund operators. (English summary) **94k:42051**
— *see also* **Hemker, Pieter W.; et al., 94h:42059**
Olde Daalhuis, Adri B. Computing with Daubechies' wavelet.. (English summary) **94i:42046**
Schipp, Ferenc Multiple Walsh analysis. (English summary) **94d:42038**
Temme, Nico M. Wavelets: first steps. (English summary) **94h:42061**
— *see also* **Hemker, Pieter W.; et al., 94h:42059**
Wang, Jian Zhong[1] Wavelet theory and its applications to physics and engineering. (Chinese. English summary) **94h:42062**

42–03 Historical (must also be assigned at least one classification number from Section 01)

Ovsepyan, R. I. *see* **Talalyan, A. A., 94d:42001**
Talalyan, A. A. (*with* Ovsepyan, R. I.) D. E. Men'shov's representation theorems and their influence on the development of metric function theory. (Russian. Russian summary) **94d:42001**

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(Chen, Jian Gong) *see* **Wang, Si Lei**
Lorentz, G. G. Antoni Zygmund and his work. **94f:01037**
Pecot, Jean-Bernard Le problème de l'ellipsoïde et l'analyse harmonique: la controverse entre Legendre et Laplace. [The problem of the ellipsoid and harmonic analysis: the controversy between Legendre and Laplace] **94m:01018**
Ul'yanov, P. L. Development of D. E. Men'shov's results on the theory of orthogonal series. (Russian. Russian summary) **94c:01025a**
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Wang, Si Lei In memory of Professor Jian Gong Chen on his 100th birthday. (Chinese. English and Chinese summaries)
(Zygmund, Antoni Szczepan) *see* **Lorentz, G. G., 94f:01037**

42–06 Proceedings, conferences, collections, etc.

(Brezinski, Claude) *see* **Orthogonal polynomials and their applications, 94m:42003**
(Daubechies, Ingrid) *see* **Different perspectives on wavelets, 94j:42002**
(Dehesa, J. S.) *see* **Proceedings: Symposium on Orthogonal Polynomials and Applications, 94e:42001** *and* **94k:42002**
(Gori Nicolò-Amati, Laura) *see* **Orthogonal polynomials and their applications, 94m:42003**
(Igari, S.) *see* **Harmonic analysis, 94k:42001**
(Koornwinder, Tom H.) *see* **Wavelets: an elementary treatment of theory and applications, 94c:42001**
(Meyer, Yves) *see* **Wavelets and applications, 94m:42004**
(Naidu, P. S. V.) *see* **Integral operators and boundary properties of functions. Fourier series, 94b:42001**
(Ronveaux, André) *see* **Orthogonal polynomials and their applications, 94m:42003**
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(Tsereteli, O. D.) *see* **Integral operators and boundary properties of functions. Fourier series, 94b:42001**
(Webb, Glenn F.) *see* **Recent advances in wavelet analysis, 94e:42002**

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Harmonic Analysis ★ Harmonic analysis. **94k:42001**
Wavelets and their Applications ★ Wavelets and applications. **94m:42004**
Cours: analyse fonctionnelle et harmonique ★ Cours: analyse fonctionnelle et harmonique (1992–1993). (French) [Course: functional and harmonic analysis (1992–1993)] **94m:42002**
Course: functional and harmonic analysis ★ Cours: analyse fonctionnelle et harmonique (1992–1993). (French) [Course: functional and harmonic analysis (1992–1993)] **94m:42002**
Different perspectives on wavelets ★ Different perspectives on wavelets. **94j:42002**
Erice ★ Orthogonal polynomials and their applications. **94m:42003**
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Harmonic analysis ★ Harmonic analysis. **94k:42001**
Integral operators and boundary properties of functions. Fourier series ★ Integral operators and boundary properties of functions. Fourier series. **94b:42001**
Marseille ★ Wavelets and applications. **94m:42004**
Obituary:
Shanks, Baylis ★ Recent advances in wavelet analysis. **94e:42002**
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(Bray, William O.) *see* **Fourier analysis, 94m:00025**
(Chebyshev, P. L.) *see* **Topics in polynomials of one and several variables and their applications, 94m:00020**
(Cooper, S. Clement) *see* **Continued fractions and orthogonal functions, 94i:30001**
(Farge, Marie) *see* **Wavelets, fractals, and Fourier transforms, 94i:00017**
(Hunt, J. C. R.) *see* **Wavelets, fractals, and Fourier transforms, 94i:00017**
(Laine, Andrew) *see* **Wavelet theory and application, 94i:94001**
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(Moraga, Claudio) *see* **Trends and open questions, 94f:42002**
(Rassias, Themistocles M.) *see* **Topics in polynomials of one and several variables and their applications, 94m:00020**
(Srivastava, Hari M.) *see* **Topics in polynomials of one and several variables and their applications, 94m:00020**
(Stanojević, Časlav V.) *see* **Fourier analysis, 94m:00025**
(Stepanets, A. I.) *see* **Fourier series: theory and applications, 94c:41001**
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(Vassilicos, J. C.) *see* **Wavelets, fractals, and Fourier transforms, 94i:00017**
(Yanushauskas, A. I.) *see* **Topics in polynomials of one and several variables and their applications, 94m:00020**

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Biography:
Chebyshev, P. L. ★ Topics in polynomials of one and several variables and their applications. **94m:00020**

Continued fractions and orthogonal functions ★ Continued fractions and orthogonal functions. **94i:30001**
Fourier analysis ★ Fourier analysis. **94m:00025**
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Loen ★ Continued fractions and orthogonal functions. **94i:30001**
Memorial:
Chebyshev, P. L. ★ Topics in polynomials of one and several variables and their applications. **94m:00020**
Orono, ME ★ Fourier analysis. **94m:00025**
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Fourier Series: Theory and Applications ★ Ряды Фурье: теория и приложения. (Russian) [Fourier series: theory and applications] **94c:41001**
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Trends and open questions Trends and open questions. (English summary) **94f:42002**
Wavelet theory and application ★ Wavelet theory and application. **94i:94001**
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42Axx Fourier analysis in one variable

42A05 Trigonometric polynomials, inequalities, extremal problems

Babenko, V. F. (*with* Ligun, A. A.) Some Bernstein-type inequalities for trigonometric polynomials. (Russian. Russian and Ukrainian summaries) **94m:42005**
Binev, Petăr G. (*with* Petrushev, P.; Saff, E. B.; Trifonov, O.) Distribution of interpolation points of best L_2-approximants (nth partial sums of Fourier series). (English summary) **94g:42001**
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Kolountzakis, Mihail N. On nonnegative cosine polynomials with nonnegative integral coefficients. **94b:42002**
Ligun, A. A. *see* **Babenko, V. F., 94m:42005**
Losonczi, László On an extremal property of nonnegative trigonometric polynomials. (English summary) **94h:42001**
Nazarov, F. L. Local estimates for exponential polynomials and their applications to inequalities of the uncertainty principle type. (Russian. Russian summary) **94k:42004**
Petrushev, P. *see* **Binev, Petăr G.; et al., 94g:42001**
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Đoković, Dragomir Ž. (*with* Legorreta, L.) Hermitian matrices of order 2 over the ring of finite Fourier series with complex coefficients. (English summary) **94e:15050**
Gong, Gui Fu (*with* Liu, Li Quan) On Baernstein's star-function. (Chinese summary) **94m:30053**
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42A10 Trigonometric approximation

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Davydov, O. V. Approximation of functions of the class $C(\varepsilon)$ by subsequences of de la Vallée-Poussin sums. (Russian) **94h:42002**
Drozd, V. V. One-dimensional approximation of functions and their derivatives, taken with shifts in argument, by Fourier sums. (Russian. Russian summary) **94f:42003**
Dzimistarishvili, M. G. Approximation of classes of functions by Rogosinski operators. (Russian. Russian summary) **94d:42003**
Firlej, Barbara (*with* Rempulska, Lucyna) Approximation theorems for 2π-periodic functions in Orlicz spaces. (English summary) **94b:42003**
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Jassim, S. K. Best onesided approximation and approximation with trigonometric operators in L_p, $0 < p \leq 1$. (English summary) **94d:42004**
Jiang, Yan Jie Approximation in the Hölder metric by a class of trigonometric interpolation polynomials. (Chinese. English and Chinese summaries) **94m:42006**
Kinukawa, Masakiti On the absolute convergence of Fourier series. **94g:42002**
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Ammar, Gregory S. (*with* Gragg, William B.; Reichel, Lothar) Downdating of Szegő polynomials and data-fitting applications. **94a:41013**
Belov, M. A. The heat equation and stable calculation of integrals and series. (Russian. Russian summary) **94j:42005**
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Chan, Raymond H. (*with* Tang, Ping Tak Peter) Fast band-Toeplitz preconditioners for Hermitian Toeplitz systems. (English summary) **94j:65043**
Cottin, Claudia Directional K-functionals. (English summary) **94j:41028**
Di Natale, M. (*with* Gotusso, Laura; Pavani, R.; Roux, Delfina) Uniform approximation by Fourier polynomials with noisy coefficients. (Italian summary) **94k:65194**
Galeev, È. M. Bernstein-Nikol'skiĭ inequalities for functions of several variables that are best with respect to the choice of harmonics. (Russian. Russian summary) **94g:41057**
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Khromova, G. V. (*with* Ponomareva, E. N.) On approximations by linear methods of the summation of Fourier series on a class of functions. (Russian) **94d:41030**
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Prössdorf, Siegfried *see* **McLean, William; et al., 94m:65203**
Pustovoitov, N. N. The multidimensional Jackson theorem in the space L_p. (Russian. Russian summary) **94d:41047**
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Zhuk, V. V. Equalities of Parseval type and some of their applications. (Russian. English and Russian summaries) **94f:42008**

42A15 Trigonometric interpolation

Chui, Charles K. (*with* Mhaskar, H. N.) On trigonometric wavelets. (English summary) **94c:42002**
Jiang, Tian Zi Asymptotic expansion of the uniform norm of the derivative operator associated with the Lagrange trigonometric interpolation operator. (English summary) **94e:42003**
Kosheleva, G. G. Random interpolation polynomials. (Russian. Russian summary) **94f:42006**
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Balder, Erik J. *see* **le Cessie, S., 94m:41003**
Baszenski, G. (*with* Delvos, Franz-J.; Jester, S.) Blending approximations with sine functions. (English summary) **94m:42027**
Ber, M. G. (*with* Malozëmov, V. N.) Interpolation of discrete periodic data. (Russian. Russian summary) **94e:41003**
Binev, Petăr G. (*with* Petrushev, P.; Saff, E. B.; Trifonov, O.) Distribution of interpolation points of best L_2-approximants (*n*th partial sums of Fourier series). (English summary) **94g:42001**
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Jetter, Kurt Multivariate approximation from the cardinal interpolation point of view. (English summary) **94d:41004**
Jiang, Yan Jie Approximation in the Hölder metric by a class of trigonometric interpolation polynomials. (Chinese. English and Chinese summaries) **94m:42006**
Kirchhoff, N. (*with* Nessel, Rolf Joachim) Some negative results concerning a pointwise comparison of a trigonometric convolution process with its discrete analogue. **94e:42009**
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Malozëmov, V. N. *see* **Ber, M. G., 94e:41003**
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Sharmea, A. (*with* Sun, Xie Hua) A 2-periodic trigonometric interpolation problem. (English summary) **94g:41005**
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Yu, Ding Guo Mean convergence of Hermite-Fejér interpolation operators. (Chinese. Chinese summary) **94i:41031**

42A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30.}

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Belov, A. S. Local properties of some functions in the Hölder class. (Russian) **94k:42005**
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Oniani, G. T. The topological characteristic of classes of continuous functions defined by the order of their Fourier coefficients. (Russian and Georgian summaries) **94k:42008**
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Duchoň, Miloslav On Fourier-Stieltjes transforms in vector lattices. (English summary) **94m:42018**
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— (*with* Gotusso, Laura) A regularization method for discrete Fourier polynomials. (English summary) **94m:65207**
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Huang, Ming Chieh Harmonic analysis for operators in homogeneous classes. (English summary) **94m:43005**
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Karagulyan, G. A. On the convergence to infinity of Fourier series along dense subsequences of numbers. (Russian summary) **94d:42008**
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Singh, Tikam Approximation to continuous functions in the Hölder metric. (Serbo-Croatian summary) **94e:42006**
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42A20 Convergence of Fourier and trigonometric series

Bor, Hüseyin On L^1-convergence of a modified cosine sum. (English summary) **94k:42009**
Dăng Vũ Giang On the exactness of a theorem of G. A. Fomin. (Russian summary) **94h:42008**
De Souza, Geraldo Soares (*with* Sampson, G.) A function in the Dirichlet space such that its Fourier series diverges almost everywhere. **94e:42004**
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Gottlieb, David (*with* Shu, Chi-Wang; Solomonoff, Alex; Vandeven, Hervé) On the Gibbs phenomenon. I. Recovering exponential accuracy from the Fourier partial sum of a nonperiodic analytic function. (English summary) **94h:42006**
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— On divergence in category of sequences of linear operators. (English summary) **94m:28007**
Móricz, Ferenc Lebesgue integrability and L^1-convergence of trigonometric series with special coefficients. **94i:42005**
— Lebesgue integrability of double cosine and sine series. (English summary) **94k:42030**
Rao, K. A. S. S. V. K. *see* **Das, Gokulananda, 94b:40003**
Rodin, V. A. On an extension of an operator of weak type. (Russian) **94b:47043**
Rubinshtein, A. I. Best converging series in $L_p[0, 2\pi]$. (Russian. Russian summary) **94g:42003**
Shu, Chi-Wang *see* **Gottlieb, David; et al., 94h:42006**
Solomonoff, Alex *see* **Gottlieb, David; et al., 94h:42006**
Tanović-Miller, N. *see* **Buntinas, M., 94f:42007**
Tee, Garry J. Integer sums of recurring series. (English summary) **94k:11016**
Vandeven, Hervé *see* **Gottlieb, David; et al., 94h:42006**
Young, Wo-Sang Weighted norm inequalities for Vilenkin-Fourier series. **94a:42038**
Zhou, Song Ping What strong monotonicity condition on Fourier coefficients can make the ratio $\|f - S_n(f)\|/E_n(f)$ be bounded? (English summary) **94i:42003**

42A24 Summability of Fourier and trigonometric series

Belinskiĭ, È. S. Strong summability of periodic functions and embedding theorems. (Russian) **94k:42010**
Borwein, David The nonlocal nature of the summability of Fourier series by certain absolute Riesz methods. (English summary) **94i:42006**
Chandra, Prem A note on the degree of approximation of continuous functions. **94j:42010**
Gabisoniya, O. D. On points of strong summability of Fourier series. (Russian. Russian and Ukrainian summaries) **94i:42007**
Gevorkyan, G. G. On trigonometric series that are summable by the Riemann method. (Russian. Russian summary) **94m:42012**
Gupta, B. L. (*with* Pudmavati) On the absolute Hausdorff summability of Fourier series. (Hindi. English and Hindi summaries) **94g:42008**
Homeier, Herbert H. H. A Levin-type algorithm for accelerating the convergence of Fourier series. (English summary) **94f:42010**
Jena, Subas Chandra (*with* Mishra, Rashmi) Generalised absolute Cesàro summability of a factored conjugate series. **94e:42005**
— (*with* Mishra, Rashmi) Generalised absolute Cesàro summability of a factored Fourier series and a series associated to the conjugate series. (English summary) **94j:42011**
Karagulyan, G. A. On the divergence of strong Φ-means of Fourier series. (Russian. Russian summary) **94m:42013**
Karchava, T. K. Some properties of Cesàro means of a Fourier trigonometric series. (Russian. English and Georgian summaries) **94c:42003**
Khan, Huzoor H. Saturation for Fourier series by matrix operator. **94i:42008**
Kharkevich, Yu. I. Approximation of classes of continuous periodic functions by Abel-Poisson operators. (Russian. Russian summary) (*see* **94c:41001**)
Kulik, A. N. *see* **Stepanets, A. I., 94k:42011**
Leindler, László (*with* Meir, Amram) Sharpening of Stečkin's theorem to strong approximation with exponent p. (Russian summary) **94i:42009**
Lenski, Włodzimierz On the rate of pointwise strong (C, α)-summability of Fourier series. **94h:42009**
Meir, Amram *see* **Leindler, László, 94i:42009**
Mishra, Rashmi *see* **Jena, Subas Chandra, 94e:42005** *and* **94j:42011**
Nema, Harish Kumar On the degree of approximation of functions belonging to the Lipschitz class. **94h:42010**
— *see also* **Qureshi, K., 94h:42011**
Németh, J. Strong approximation and classes H^ω. **94i:42010**
Ostrovskaya, O. V. Approximation of classes of periodic functions by generalized Zygmund sums in the C metric. (Russian. Russian summary) **94i:42011**
Pachulia, N. L. On a characterization of points of φ-strong summability of Fourier series. (Russian. Russian summary) (*see* **94c:41001**)
Pudmavati *see* **Gupta, B. L., 94g:42008**
Qureshi, K. (*with* Nema, Harish Kumar) On the degree of approximation of a class of functions by means of a conjugate series. **94h:42011**
Repeta, L. A. Approximation of functions of the classes $\hat{C}^\psi_{\beta,\infty}$ by operators of the form $\mathcal{U}^{\varphi,F}_\sigma$. (Russian. Russian summary) (*see* **94c:41001**)
Singh, Tikam Approximation to continuous functions in the Hölder metric. (Serbo-Croatian summary) **94e:42006**
— Degree of approximation to functions by matrix transforms. **94h:42012**
Skopina, M. A. On the divergence of linear summation methods of Fourier series. (Russian summary) **94a:42003**
Stepanets, A. I. (*with* Kulik, A. N.) Approximation of functions in the class $C^\psi_{\beta,\infty}$ by de la Vallée-Poussin sums. (Russian. Russian summary) **94k:42011**
Sukhorol'skiĭ, M. A. Averaging of trigonometric series. (Russian) **94m:42014**
Sulaiman, W. T. On $|C, \alpha, \gamma|_k$ summability factors of Fourier series. (English summary) **94d:42009**
— On $|\overline{N}, p_n|_k$ summability of an associated conjugate series of a Fourier series. (English summary) **94m:42015**
Tam, Laying General Euler-Borel summability of Fourier series. (English summary) **94k:42012**
Tripathi, Radha Rani Approximation to a function by harmonic means of its Fourier series and conjugate series. (English summary)

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Dalela, A. K. *see* **Prakash, Ved, 94j:42017**
Das, Gokulananda (*with* Mohapatra, Minati) The degree of approximation of functions in the Hölder metric. **94c:41024**
Dikshit, G. D. (*with* Rees, C. S.) A unified study of absolute Riesz summability of Fourier series. (English summary) **94f:42011**
Dikshit, H. P. (*with* Fridy, J. A.) Some absolutely effective product methods. (English summary) **94j:40012**
Fridy, J. A. *see* **Dikshit, H. P., 94j:40012**
Khromova, G. V. (*with* Ponomareva, E. N.) On approximations by linear methods of the summation of Fourier series on a class of functions. (Russian) **94d:41030**
Kumar, Arun Absolute total effectiveness of a product method. **94e:40009**
Leindler, László On the generalized strong de la Vallée Poussin approximation. **94j:42052**
Mohapatra, Minati *see* **Das, Gokulananda, 94c:41024**
Novikov, O. A. Approximation of classes of continuous periodic functions by Favard sums. (Russian. Russian summary) **94h:42003**
— (*with* Rukasov, V. I.) Approximation of classes of continuous periodic functions by analogues of de la Vallée-Poussin sums. (Russian. Russian summary) (*see* **94c:41001**)
Ostrovskaya, O. V. Approximation of classes of continuous periodic functions by generalized Zygmund sums. (Russian. Russian summary) **94f:42005**
Ponomareva, E. N. *see* **Khromova, G. V., 94d:41030**
Prakash, Ved (*with* Dalela, A. K.) On the absolute Nörlund summability of a series related to Fourier series. (English summary) **94j:42017**
Rees, C. S. *see* **Dikshit, G. D., 94f:42011**
Rodin, V. A. On an extension of an operator of weak type. (Russian) **94b:47043**
Rukasov, V. I. *see* **Novikov, O. A., (94c:41001)**

42A28 Absolute convergence, absolute summability

Choudhary, Damyanti *see* **Pathak, H. K.**
Dikshit, G. D. (*with* Rees, C. S.) A unified study of absolute Riesz summability of Fourier series. (English summary) **94f:42011**
Jena, Subas Chandra (*with* Swain, Sakuntala) Absolute generalised Cesàro summability of an associated Fourier series. **94i:42012**
— (*with* Swain, Sakuntala) On absolute generalised Cesàro summability of an allied series. **94k:42013**
Pathak, H. K. (*with* Choudhary, Damyanti) On $|C, \alpha, \gamma|_k$ summability factors of Fourier series. (English summary)
— (*with* Choudhary, Damyanti) On $|C, \alpha, \gamma|_k$ summability factors of Fourier series. II. (English summary)
Pavlov, A. P. Absolute summability of Fourier series of functions in the classes $\mathrm{Lip}(\alpha, p)$. (Russian) **94f:42012**
Rees, C. S. *see* **Dikshit, G. D., 94f:42011**
Swain, Sakuntala *see* **Jena, Subas Chandra, 94i:42012** *and* **94k:42013**

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Dikshit, H. P. (*with* Fridy, J. A.) Some absolutely effective product methods. (English summary) **94j:40012**
Firlej, Barbara (*with* Rempulska, Lucyna) Approximation theorems for 2π-periodic functions in Orlicz spaces. (English summary) **94b:42003**
Fridy, J. A. *see* **Dikshit, H. P., 94j:40012**
Kahane, Sylvain Antistable classes of thin sets in harmonic analysis. **94g:43005**
Kinukawa, Masakiti On the absolute convergence of Fourier series. **94g:42002**
Németh, J. Strong approximation and classes H^ω. **94i:42010**
Rempulska, Lucyna *see* **Firlej, Barbara, 94b:42003**
Sulaiman, W. T. On $|C, \alpha, \gamma|_k$ summability factors of Fourier series. (English summary) **94d:42009**

42A32 Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)

Aubertin, Bruce (*with* Fournier, John J. F.) Integrability theorems for trigonometric series. (English summary) **94j:42012**
Belov, A. S. Upper bounds on partial sums of trigonometric series in terms of lower bounds. (Russian. Russian summary) **94k:42014**
Brown, Gavin (*with* Wang, Kun Yang; Wilson, David Charles) Positivity of some basic cosine sums. (English summary) **94h:42013**
Fournier, John J. F. *see* **Aubertin, Bruce, 94j:42012**
Golubov, B. I. Hardy and Bellman transformations of Fourier coefficients. (Russian. Russian summary) **94j:42013**
Lang, W. Christopher Entropy norms of lacunary and random Fourier series. (English summary) **94k:42015**
Oskolkov, K. I. A class of I. M. Vinogradov's series and its applications in harmonic analysis. **94m:42016**
Telyakovskiĭ, S. A. Some properties of sine series with monotone coefficients. (Russian. English summary) **94d:42010**
Wang, Kun Yang *see* **Brown, Gavin; et al., 94h:42013**
Wilson, David Charles *see* **Brown, Gavin; et al., 94h:42013**
Yudin, V. A. Trigonometric series with positive partial sums. (Russian) **94c:42004**

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Bor, Hüseyin On L^1-convergence of a modified cosine sum. (English summary) **94k:42009**
Dâng Vũ Giang On the exactness of a theorem of G. A. Fomin. (Russian summary) **94b:42008**
— (*with* Móricz, Ferenc) On the integrability of trigonometric series. (Russian summary) **94k:42007**
Das, Gokulananda (*with* Rao, K. A. S. S. V. K.) A generalisation of quasi-convex sequence spaces and its application to trigonometric series. **94b:40003**
Fishback, Paul E. On nicely placed subsets of the real line. (English summary) **94m:42009**
Fukuyama, Katusi Functional law of the iterated logarithm for lacunary trigonometric and some gap series. **94d:60043**
Hall, R. R. (*with* Hayman, Walter K.) A problem in the theory of subordination. **94m:42010**
Hayman, Walter K. *see* **Hall, R. R., 94m:42010**
Kolountzakis, Mihail N. On nonnegative cosine polynomials with nonnegative integral coefficients. **94b:42002**
Krotov, V. G. On the smoothness of universal Marcinkiewicz functions and universal trigonometric series. (Russian) **94a:42002**

Lorch, Lee (*with* Russell, D. C.) Remarks on trigonometric inequalities. (English summary) **94a:26037**
McLean, William Numerical evaluation of some trigonometric series. (English summary) **94l:65136**
Mikaelian, Karnig O. Functions $\sin_K x$ and $\cos_K x$. (English summary) **94b:65028**
Móricz, Ferenc Integrability of double trigonometric series in the sense of improper Riemann integral. **94g:42013**
— *see also* **Dăng Vũ Giang, 94k:42007**
Rao, K. A. S. S. V. K. *see* **Das, Gokulananda, 94b:40003**
Russell, D. C. *see* **Lorch, Lee, 94a:26037**
Vyas, R. G. Fourier coefficients of functions of generalized bounded variation. **94j:42008**
Zhou, Song Ping What strong monotonicity condition on Fourier coefficients can make the ratio $\|f - S_n(f)\|/E_n(f)$ be bounded? (English summary) **94l:42003**

42A38 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type

Bobillo-Ares, Nilo C. Invariant linear operators and Fourier analysis. (English summary) **94m:42017**
Cincotti, G. (*with* Gori, Franco; Santarsiero, M.) Generalized self-Fourier functions. (English summary) **94c:42005**
Duchoň, Miloslav On Fourier-Stieltjes transforms in vector lattices. (English summary) **94m:42018**
Gori, Franco *see* **Cincotti, G.; et al., 94c:42005**
Kiselëv, O. M. *see* **Validova, Z. N., 94m:42021**
Kurkiev, A. B. A boundedness condition for oscillatory integrals with a cubic polynomial. (Russian. English summary) **94h:42014**
Liflyand, E. R. On asymptotics of Fourier transform for functions of certain classes. (Russian summary) **94j:42014**
Lighthill, Michael James Fourier asymptotics. (English summary) **94j:42015**
— Inverse Fourier asymptotics. (English summary) **94m:42019**
Lubinsky, Doron S. (*with* Móricz, Ferenc) Pointwise convergence of Fourier transforms. **94h:42015**
Móricz, Ferenc *see* **Lubinsky, Doron S., 94h:42015**
Mu, Le Hua Asymptotic behavior of generalized Fourier-Laguerre series. (Chinese. English and Chinese summaries) **94j:42016**
Pan, Yibiao On the weak (1, 1) boundedness of a class of oscillatory singular integrals. (English summary) **94m:42020**
Santarsiero, M. *see* **Cincotti, G.; et al., 94c:42005**
Segovia, Carlos (*with* Torrea Hernández, José Luis) A note on the commutator of the Hilbert transform. **94k:42016**
Singh, U. N. The Carleman-Fourier transform and its applications. **94h:42016**
Stepanets, A. I. Some remarks on approximation of functions of high smoothness by Fourier operators. (Russian. Russian and Ukrainian summaries) **94h:42017**
Torrea Hernández, José Luis *see* **Segovia, Carlos, 94k:42016**
Tzanakis, C. A note on the Fourier transform of a positive-definite function. (English summary) **94k:42017**
Validova, Z. N. (*with* Kiselëv, O. M.) Integrals obtained from a singular Hilbert integral by a change of variables. (Russian) **94m:42021**

Items with secondary classifications in 42A38

Amato, U. (*with* Serio, C.) Retrieving a periodic function from its Fourier finite transform corrupted by error. **94g:65141**
Bak, Jong-Guk An interpolation theorem and a sharp form of a multilinear fractional integration theorem. (English summary) **94d:46028**
Ball, Joseph A. (*with* Gohberg, Israel; Kaashoek, M. A.) Reduction of the abstract four block problem to a Nehari problem. (English summary) **94a:47022**
Belov, M. A. The heat equation and stable calculation of integrals and series. (Russian. Russian summary) **94j:42005**
Benedetto, John J. (*with* Heil, Christopher; Walnut, David F.) Uncertainty principles for time-frequency operators. (English summary) **94a:42041**
Bloom, Steven (*with* Jurkat, Wolfgang B.; Sampson, G.) Two weighted (L^p, L^q) estimates for the Fourier transform. **94h:42025**
Caldwell, James Solution of Burgers' equation by Fourier transform methods. **94m:35261**
Cheung, Kwan F. A multidimensional extension of Papoulis' generalized sampling expansion with the application in minimum density sampling. (English summary) (*see* **94i:94004**)
Donoho, David L. (*with* Stark, Philip B.) A note on rearrangements, spectral concentration, and the zero-order prolate spheroidal wavefunction. (English summary) **94a:33014**
Drozd, V. V. Simultaneous approximation of functions and their derivatives, with shifted argument, by Fourier sums. (Russian. Russian summary) (*see* **94c:41001**)
Erdős, Péter L. *see* **Székely, László A.; et al., 94i:92009**
Gohberg, Israel *see* **Ball, Joseph A.; et al., 94a:47022**
Guo, Kang Hui (*with* Hu, Shou Chuan; Sun, Xingping) Conditionally positive definite functions and Laplace-Stieltjes integrals. (English summary) **94k:26015**
Heil, Christopher *see* **Benedetto, John J.; et al., 94a:42041**
Hu, Shou Chuan *see* **Guo, Kang Hui; et al., 94k:26015**
Jurkat, Wolfgang B. *see* **Bloom, Steven; et al., 94h:42025**
Kaashoek, M. A. *see* **Ball, Joseph A.; et al., 94a:47022**
Kushilevitz, Eyal (*with* Mansour, Yishay) Learning decision trees using the Fourier spectrum. (English summary) **94j:68256**
Makarov, K. A. Asymptotics of the Fourier transform of self-affine measures. (Russian) **94m:28014**
Mansour, Yishay *see* **Kushilevitz, Eyal, 94j:68256**
Ngo Phu Thanh *see* **Radyno, Ya. V.; et al., 94c:46080**
Offin, D. C. (*with* Oskolkov, K. I.) A note on orthonormal polynomial bases and wavelets. (English summary) **94f:42047**
Oskolkov, K. I. A class of I. M. Vinogradov's series and its applications in harmonic analysis. **94m:42016**
— *see also* **Offin, D. C., 94f:42047**
Papi, Gloria On the inverse problem of reconstructing objects from the knowledge of the far-field. (English summary) **94k:78023**
Pathak, R. S. (*with* Upadhyay, S. K.) W^p-spaces and Fourier transform. (English summary) **94i:46051**
Radyno, Ya. V. (*with* Ngo Phu Thanh; Ramadan, Sabra) The Fourier transformation in an algebra of new generalized functions. (Russian) **94c:46080**
Ramadan, Sabra *see* **Radyno, Ya. V.; et al., 94c:46080**
Ryazanov, V. I. Convergence of characteristics, the Fourier transformation, and the Reich-Walczak problem. (Russian) **94f:30027**
Sampson, G. *see* **Bloom, Steven; et al., 94h:42025**
Serio, C. *see* **Amato, U., 94g:65141**
Stark, Philip B. *see* **Donoho, David L., 94a:33014**
Steel, Michael *see* **Székely, László A.; et al., 94i:92009**
Sun, Xingping *see* **Guo, Kang Hui; et al., 94k:26015**
Supper, Raphaële Quelques applications liées aux fonctionnelles analytiques. [Some applications associated with analytic functionals] **94k:46081**
Székely, László A. (*with* Steel, Michael; Erdős, Péter L.) Fourier calculus on evolutionary trees. (English summary) **94i:92009**
Taĭkov, L. V. Hardy inequalities. (Russian) **94d:26018**
Tausch, Johannes A generalization of the discrete Fourier transformation. (English summary) **94k:65039**
Upadhyay, S. K. *see* **Pathak, R. S., 94i:46051**
Walnut, David F. *see* **Benedetto, John J.; et al., 94a:42041**
Yang, George K. Solutions to a filtering problem and convolution equations. (English summary) **94f:43010**

42A45 Multipliers

Blasco De La Cruz, Oscar Multipliers on weighted Besov spaces of analytic functions. (English summary) **94m:42022**
Dalela, A. K. *see* **Prakash, Ved, 94j:42017**
Galstyan, S. Sh. Convergence and unconditional convergence of Fourier series. (Russian) **94k:42018**
Lippus, Jüri Fourier multipliers of classes of functions with a given order of magnitude of the modulus of continuity. **94h:42018**
— Fourier multipliers of generalized Lipschitz classes on the real line. (English, Russian and Estonian summaries) **94f:42013**
Prakash, Ved (*with* Dalela, A. K.) On the absolute Nörlund summability of a series related to Fourier series. (English summary) **94j:42017**
Trigub, R. M. Multipliers of Fourier series. (Russian. Ukrainian summary) **94c:42006**

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Baron, Simson (*with* Schipp, Ferenc) On complementary spaces and multipliers for Walsh series. **94j:42040**
Borwein, David The nonlocal nature of the summability of Fourier series by certain absolute Riesz methods. (English summary) **94i:42006**
Dorogovtsev, A. A. Local diagonal operators. (Russian. Russian summary) (*see* **94c:41001**)
Gupta, Sanjiv Kumar (*with* Madan, Shobha; Tewari, U. B.) Multipliers on spaces of functions on compact groups with p-summable Fourier transforms. (English summary) **94d:43004**
Koosis, Paul ★ The logarithmic integral. II. **94i:30027**
Madan, Shobha *see* **Gupta, Sanjiv Kumar; et al., 94d:43004**
Schipp, Ferenc *see* **Baron, Simson, 94j:42040**
Sulaiman, W. T. On $|C, \alpha, \gamma|_k$ summability factors of Fourier series. (English summary) **94d:42009**
Tewari, U. B. *see* **Gupta, Sanjiv Kumar; et al., 94d:43004**

42A50 Conjugate functions, conjugate series, singular integrals

Bubakar, Silla *see* **Kilbas, A. A.; et al., 94k:42019**
Cruz-Uribe, David The class $L \log L$ with weights. **94h:42019**
Gadzhiev, N. M. (*with* Rzaev, R. M.) On the order of locally summable functions approximation by singular integrals. (English summary) **94a:42004**
Hu, Yue A weighted norm inequality for oscillatory singular integrals. **94g:42009**
— Oscillatory singular integrals on weighted Hardy spaces. **94f:42014**
Kilbas, A. A. (*with* Saigo, Megumi; Bubakar, Silla) Zygmund type estimates and mapping properties of operators with power-logarithmic kernels in generalized Hölder spaces. (English summary) **94k:42019**
Pick, Luboš Weighted estimates for the Hilbert transform of odd functions. (English and Georgian summaries) **94k:42020**
Rzaev, R. M. *see* **Gadzhiev, N. M., 94a:42004**
Saigo, Megumi *see* **Kilbas, A. A.; et al., 94k:42019**
Tsereteli, O. D. On the symmetry property of the conjugate function of a nonnegative Borel measure. (Georgian summary) **94m:42023**

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Gupta, Sanjiv Kumar (*with* Madan, Shobha; Tewari, U. B.) The conjugation operator on $A_\phi(G)$. (English summary) **94g:43003**
Jefferies, Brian R. F. (*with* Ricker, Werner J.) The Weyl calculus and a singular integral in $L^1(\mathbf{R})$. **94h:47097**
Joó, I. On the conjugate function of Dirichlet series. **94j:42041**
Madan, Shobha *see* **Gupta, Sanjiv Kumar; et al., 94g:43003**
Nema, Harish Kumar On the degree of approximation of functions belonging to the Lipschitz class. **94h:42010**
— *see also* **Qureshi, K., 94h:42011**
Pisier, Gilles A simple proof of a theorem of Jean Bourgain. **94g:46056**
Qureshi, K. (*with* Nema, Harish Kumar) On the degree of approximation of a class of functions by means of a conjugate series. **94h:42011**
Ricker, Werner J. *see* **Jefferies, Brian R. F., 94h:47097**

Segovia, Carlos (*with* Torrea Hernández, José Luis) A note on the commutator of the Hilbert transform. **94k:42016**
Singh, U. N. The Carleman-Fourier transform and its applications. **94h:42016**
Tewari, U. B. *see* **Gupta, Sanjiv Kumar; et al., 94g:43003**
Torrea Hernández, José Luis *see* **Segovia, Carlos, 94k:42016**
Yamamoto, Takanori Invertibility of some singular integral operators and a lifting theorem. (English summary) **94e:47038**
Young, Wo-Sang Weighted norm inequalities for Vilenkin-Fourier series. **94a:42038**

42A55 Lacunary series of trigonometric and other functions; Riesz products

Grubb, D. J. (*with* Moore, Charles N.) Certain lacunary cosine series are recurrent. (English summary) **94k:42021**
Moore, Charles N. *see* **Grubb, D. J., 94k:42021**
Sun, Dao Chun (*with* Wen, Zhi Ying) The Hausdorff dimension of a class of lacunary trigonometric series. (English summary) **94e:42007**
Ullrich, David C. Recurrence for lacunary cosine series. **94g:42010**
Wen, Zhi Ying *see* **Sun, Dao Chun, 94e:42007**

Items with secondary classifications in 42A55

Brown, Gavin (*with* Moran, William) Schmidt's conjecture on normality for commuting matrices. **94c:11064**
Fan, Ai Hua Lacunarité à la Hadamard et équirépartition. (French summary) [Lacunarity à la Hadamard and uniform distribution] **94j:11071**
Kahane, Jean-Pierre From Riesz products to random sets. (English summary) **94m:60025**
Lang, W. Christopher Entropy norms of lacunary and random Fourier series. (English summary) **94k:42015**
Moran, William *see* **Brown, Gavin, 94c:11064**
Nazarov, F. L. Local estimates for exponential polynomials and their applications to inequalities of the uncertainty principle type. (Russian. Russian summary) **94k:42004**
Sagher, Yoram (*with* Zhou, Ke Cheng) On a theorem of Burkholder. **94m:42069**
— (*with* Zhou, Ke Cheng) Local BMO_d estimates for lacunary series. (English summary) **94i:42036**
Zhou, Ke Cheng *see* **Sagher, Yoram, 94i:42036** *and* **94m:42069**

42A61 Probabilistic methods

Karagulyan, G. A. The order of growth $o(\log\log n)$ of partial sums of Fourier-Stieltjes series of random measures. (Russian. Russian summary) **94h:42020**

Items with secondary classifications in 42A61

Fan, Ai Hua Lacunarité à la Hadamard et équirépartition. (French summary) [Lacunarity à la Hadamard and uniform distribution] **94j:11071**
Kahane, Jean-Pierre From Riesz products to random sets. (English summary) **94m:60025**
Queffélec, Hervé Quasi-sure version of a theorem of Littlewood. (English summary) **94a:42001**
Rao, M. M. Exact evaluation of conditional expectations in the Kolmogorov model. (English summary) **94j:60003**

42A63 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization

Bukovský, Lev Thin sets related to trigonometric series. (English summary) **94h:42021**

Items with secondary classifications in 42A63

Cooke, Roger L. Uniqueness of trigonometric series and descriptive set theory, 1870–1985. **94h:01017**
Grow, David E. (*with* Insall, Matt) An extremal set of uniqueness? **94d:43005**
Insall, Matt *see* **Grow, David E., 94d:43005**
Nazarov, F. L. Local estimates for exponential polynomials and their applications to inequalities of the uncertainty principle type. (Russian. Russian summary) **94k:42004**
Zarrabi, Mohamed Contractions à spectre dénombrable et propriétés d'unicité des fermés dénombrables du cercle. (English and French summaries) [Contractions with countable spectrum and uniqueness properties of closed countable subsets of the circle] **94b:47048**

42A65 Completeness of sets of functions

Avdonin, S. A. The existence of basis subfamilies of a Riesz basis from exponentials. (Russian. English and Russian summaries) **94k:42022**
Bilalov, B. T. The basis property of some exponential systems in $\mathscr{L}_p$ spaces. (Russian) **94j:42018**
— Completeness and minimality of a trigonometric system of functions. (Russian. Russian summary) **94k:42023**
— A necessary and sufficient condition for the completeness and minimality of systems of powers in L_1. (Russian) **94k:42024**
Borichev, A. A. Completeness of systems of translates and uniqueness theorems for asymptotically holomorphic functions. (*see* **94e:41001**)
Gubreev, G. M. (*with* Ignatenko, T. R.) A class of orthogonalizers of families of exponentials with real frequencies. (Russian. Russian and Ukrainian summaries) **94f:42015**
Ignatenko, T. R. *see* **Gubreev, G. M., 94f:42015**
Mustafin, M. A. On a problem of N. K. Bari on bases that are not Riesz bases. (Russian) **94c:42007**

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Bratishchev, A. V. Basis of exponentials in a half-plane and a strip. (Russian) **94a:30003**
Coifman, Ronald (*with* Meyer, Yves; Wickerhauser, Mladen Victor) Size properties of wavelet-packets. **94a:42044**
Isenbeck, M. (*with* Rüschendorf, Ludger) Completeness in location families. (English summary) **94j:60020**
Khabibullin, B. N. On the growth of entire functions of exponential type with given zeros along a line. (Russian. English summary) **94b:30034**
Kondratyuk, A. A. (*with* Korobeinik, Yu. F.) Separability of zeros of entire functions of exponential type and the completeness of characters. (Russian. Russian summary) **94d:30048**
Korobeinik, Yu. F. *see* **Kondratyuk, A. A., 94d:30048**
Meyer, Yves *see* **Coifman, Ronald; et al., 94a:42044**
Rüschendorf, Ludger *see* **Isenbeck, M., 94j:60020**
Wickerhauser, Mladen Victor *see* **Coifman, Ronald; et al., 94a:42044**
Zhuk, V. V. Equalities of Parseval type and some of their applications. (Russian. English and Russian summaries) **94f:42008**

42A70 Trigonometric moment problems

Items with secondary classifications in 42A70

Alegría Ezquerra, Pedro Two-parametric liftings of Toeplitz forms. **94a:47039**
Amerbaev, V. M. The moment method for deconvolution. (Russian)
Jones, William B. (*with* Saff, E. B.) Szegő polynomials and frequency analysis. **94a:42025**
Norvidas, S. Differential inequalities in Banach spaces of entire functions. II. (Russian. Lithuanian summary) **94k:46048**
Saff, E. B. *see* **Jones, William B., 94a:42025**

42A75 Classical almost periodic functions, mean periodic functions [see also 43A60]

Avantaggiati, A. (*with* Bruno, G.; Iannacci, Rita) A functional approach to B_q-a.p. spaces and L^∞ Fourier expansions. (English and Italian summaries) **94k:42025**
Bass, Jean Limits of sequences of periodic functions—some questions. (English summary)
Bruno, G. *see* **Avantaggiati, A.; et al., 94k:42025**
Iannacci, Rita *see* **Avantaggiati, A.; et al., 94k:42025**
Khasanov, Yu. Kh. *see* **Timan, M. F., (94c:41001)**
Kulagina, M. F. Some infinite systems with difference indices. (Russian) **94f:42016**
Pych-Taberska, Paulina On some almost periodic convolutions. (English summary) **94g:42011**
Sandrakov, G. V. Averaging of quasiperiodic functions. (Russian) **94m:42024**
Timan, M. F. (*with* Khasanov, Yu. Kh.) On the absolute convergence of Fourier series of almost periodic functions. (Russian. Russian summary) (*see* **94c:41001**)

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Jorgensen, Palle E. T. (*with* Pedersen, Steen) Group-theoretic and geometric properties of multivariable Fourier series. **94k:42050**
Marvasti, Farokh Nonuniform sampling. (*see* **94i:94004**)
Pedersen, Steen *see* **Jorgensen, Palle E. T., 94k:42050**
Spitkovsky, Ilya M. (*with* Woerdeman, Hugo J.) The Carathéodory-Toeplitz problem for almost periodic functions. (English summary) **94f:47020**
Trofimchuk, S. I. Unbounded functions with differences that are bounded and uniformly continuous on **R**. (Russian. English and Ukrainian summaries) **94g:26007**
Woerdeman, Hugo J. *see* **Spitkovsky, Ilya M., 94f:47020**

42A82 Positive definite functions

Friedrich, J. On the relation between positive definite functions and generalized Toeplitz kernels. (English summary) **94e:42008**
Zastavnyi, V. P. Positive-definite functions that depend on a norm. (Russian) **94k:42026**

Items with secondary classifications in 42A82

de Boor, Carl (*with* Ron, Amos) Fourier analysis of the approximation power of principal shift-invariant spaces. (English summary) **94c:41023**
Guo, Kang Hui (*with* Hu, Shou Chuan; Sun, Xingping) Conditionally positive definite functions and Laplace-Stieltjes integrals. (English summary) **94k:26015**
Hu, Shou Chuan *see* **Guo, Kang Hui; et al., 94k:26015**
Ron, Amos *see* **de Boor, Carl, 94c:41023**
Sun, Xingping *see* **Guo, Kang Hui; et al., 94k:26015**

42A85 Convolution, factorization

Batard Martínez, Lorgio *see* **Mederos, Otilio B., 94i:42013**
Kirchhoff, N. (*with* Nessel, Rolf Joachim) Some negative results concerning a pointwise comparison of a trigonometric convolution process with its discrete analogue. **94e:42009**
Mederos, Otilio B. (*with* Batard Martínez, Lorgio) The Riemann problem with small parameter in the space $L_2(\mathbf{R})$. (Spanish. English and Spanish summaries) **94i:42013**
Nessel, Rolf Joachim *see* **Kirchhoff, N., 94e:42009**
Oniani, G. T. Functions that act in the classes $\operatorname{Re} H^\infty$ and $\operatorname{Re} H^\infty \cap C$. (Russian. English and Georgian summaries) **94k:42027**
Pavlov, E. A. On the convolution operation in symmetric spaces. (Russian. Russian summary) **94b:42004**
Petukhov, A. P. Approximation of functions by convolution operators in the Hausdorff metric. (Russian) **94f:42017**
Ward, J. A. Factorization without bounded approximate identities. **94d:42011**

Items with secondary classifications in 42A85

Bondesson, Lennart ★ Generalized gamma convolutions and related classes of distributions and densities. (English summary) **94g:60031**
Cheng, Raymond (*with* Pourahmadi, Mohsen) The mixing rate of a stationary multivariate process. (English summary) **94m:60076**
Constantinescu, Tiberiu Factorization of positive-definite kernels. (English summary) **94h:47036**
Hu, Yue A weighted norm inequality for oscillatory singular integrals. **94g:42009**

Karapetyants, N. K. Moduli of continuity of convolution operators in an interval. (Russian) **94m:47053**
Lu, Shan Zhen *see* **Zheng, Xue An, 94j:43006**
Pourahmadi, Mohsen *see* **Cheng, Raymond, 94m:60076**
Pych-Taberska, Paulina On some almost periodic convolutions. (English summary) **94g:42011**
Yakubovich, S. B. Some generalizations of the Laplace convolution. (Russian. Russian summary) **94e:44005**
Zheng, Xue An (*with* Lu, Shan Zhen) Harmonic analysis on compact homogeneous spaces. I. Poisson summability of Fourier series. (Chinese. English and Chinese summaries) **94j:43006**

42A99 None of the above, but in this section

Emara, Salah A. A. A class of weighted inequalities. (English summary) **94m:42025**
Heinig, Hans P. (*with* Kufner, Alois) Weighted Friedrichs inequalities in amalgams. **94g:42012**
Howell, Kenneth B. A new theory for Fourier analysis. I. The space of test functions. (English summary) **94d:42012**
Kufner, Alois *see* **Heinig, Hans P., 94g:42012**
Telyakovskiĭ, S. A. Integral modulus of continuity of a Dirichlet kernel and a conjugate Dirichlet kernel. (Russian. Russian summary) **94m:42026**

Items with secondary classifications in 42A99

Aimar, Hugo Functions with mean oscillation, distribution and continuity conditions. (Spanish) **94k:46075**
Carozza, Menita Hardy's inequality with weights for nonincreasing functions. (English and Italian summaries) **94i:26010**
Forelli, Frank The theorem of F. and M. Riesz for unbounded measures. (English summary) **94f:28014**
Karapetyants, N. K. (*with* Murdaev, Kh. M.; Yakubov, A. Ya.) On the isomorphism realized by fractional integrals in generalized Nikol'skiĭ classes. (Russian) **94g:26010**
Kufner, Alois Some remarks concerning the Hardy inequality. **94m:26020**
Lai, Qin Sheng (*with* Pick, Luboš) The Hardy operator, L_{∞}, and BMO. (English summary) **94e:47042**
Miamee, A. G. On basicity of exponentials in $L^p(d\mu)$ and general prediction problems. (English summary) **94k:60066**
Murdaev, Kh. M. *see* **Karapetyants, N. K.; et al., 94g:26010**
Mysovskikh, I. P. Construction of quadrature formulas of highest trigonometric degree of precision. **94j:65036**
Pick, Luboš *see* **Lai, Qin Sheng, 94e:47042**
Prus-Wiśniowski, Franciszek λ-variation and Hausdorff distance. (English summary) **94g:26015**
Shikina, G. E. Inequalities of Hilbert and Hausdorff-Young-Riesz type with respect to a system of eigen- and associated functions of an even-order differential operator. (Russian) **94d:34082**
Stepanov, V. D. Weighted estimates for a class of integral operators. (Russian. English and Russian summaries) **94j:47079**
Wilson, J. Michael Littlewood-Paley theory in one and two parameters. **94m:42045**
Yakubov, A. Ya. *see* **Karapetyants, N. K.; et al., 94g:26010**
Zhang, Nan Song *see* **Zhou, Ding Xuan, 94j:41018**
Zhou, Ding Xuan (*with* Zhang, Nan Song) Besov spaces of Ditzian-Totik type and Bernstein-Durrmeyer operators. (Chinese summary) **94j:41018**

42Bxx Fourier analysis in several variables {For automorphic theory, see mainly 11F30.}

Items with secondary classifications in 42Bxx

D'yachenko, M. I. Some problems in the theory of multiple trigonometric series. (Russian. Russian summary) **94j:42001**

42B05 Fourier series and coefficients

Ashurov, R. R. (*with* Metvalli, A. A.) On the uniform convergence of triangular partial sums of a double trigonometric Fourier series. (Russian. English and Uzbek summaries) **94k:42028**
Bajpai, S. D. Fourier series and expansions for Fox's H-function of two variables and two-dimensional heat equation. (English summary) **94i:42014**
Baszenski, G. (*with* Delvos, Franz-J.; Jester, S.) Blending approximations with sine functions. (English summary) **94m:42027**
Ch'ên, Chang P'ao (*with* Hsieh, Po Hsun) Pointwise convergence of double trigonometric series. (English summary) **94d:42013**
Davydov, O. V. Approximation of individual functions by rectangular Fourier sums. (Russian) **94e:42010**
Delvos, Franz-J. *see* **Baszenski, G.; et al., 94m:42027**
D'yachenko, M. I. Functions of several variables that are monotone on pseudoconvex sets. (Russian. Russian summary) **94a:42005**
— Pringsheim rate of convergence of Fourier series of monotone functions in several variables. (Russian. Russian summary) **94i:42015**
Gabisoniya, O. D. Subsequences of multiple Fourier sums. (Russian. English and Georgian summaries) **94d:42014**
Gevorkyan, G. G. Uniqueness of multiple trigonometric series. (Russian) **94i:42016**
— On the uniqueness of multiple trigonometric series. (Russian. Russian summary) **94k:42029**
Hsieh, Po Hsun *see* **Ch'ên, Chang P'ao, 94d:42013**
Jester, S. *see* **Baszenski, G.; et al., 94m:42027**
Lebedev, V. V. Homeomorphisms of the torus, Fourier coefficients and integral smoothness. (Russian) **94m:42028**
Metvalli, A. A. *see* **Ashurov, R. R., 94k:42028**
Móricz, Ferenc Integrability of double trigonometric series in the sense of improper Riemann integral. **94g:42013**
— Lebesgue integrability of double cosine and sine series. (English summary) **94k:42030**
— *see also* **Ch'ên, Chang P'ao, 94d:42013**
Nakai, Mitsuru Expansions into series of spherical harmonics. (Japanese. English summary) **94g:42014**
Pinsky, Mark A. (*with* Stanton, Nancy K.; Trapa, Peter E.) Fourier series of radial functions in several variables. (English summary) **94j:42019**
Rodin, V. A. Rectangular oscillation of the sequence of partial sums of multiple Fourier series and the absence of the BMO-property. (Russian) **94c:42008**
Romanyuk, A. S. Approximation of the classes $B^r_{p,\theta}$ of periodic functions of several variables by Fourier partial sums with arbitrary choice of harmonics. (Russian. Russian summary) (*see* **94c:41001**)
Stanton, Nancy K. *see* **Pinsky, Mark A.; et al., 94j:42019**
Trapa, Peter E. *see* **Pinsky, Mark A.; et al., 94j:42019**
Volchkov, V. V. Uniqueness theorems for multiple lacunary trigonometric series. (Russian. Russian summary) **94g:42015**
Zaderei, P. V. Conditions for the integrability of multiple trigonometric series. (Russian. Russian and Ukrainian summaries) **94a:42006**

Items with secondary classifications in 42B05

Bourgain, Jean On the Cauchy problem for the Kadomtsev-Petviashvili equation. **94d:35142**
Dubinskiĭ, Yu. A. On a periodic problem for nonlinear "elliptic" equations with complex arguments. (Russian) **94i:35014**
Robakidze, M. G. Fourier-Haar coefficients of functions of several variables. (Russian. English and Georgian summaries) **94e:42036**

42B08 Summability

Beohar, B. K. *see* **Trivedi, G. S.**
Colzani, Leonardo (*with* Travaglini, Giancarlo; Vignati, Marco) Bochner-Riesz means of functions in weak-L^p. (English summary) **94h:42022**
Dzagnidze, O. P. Summability of the differentiated Fourier-Laplace series. (Russian. English and Georgian summaries) **94d:42015**
Kuznetsova, O. I. Strong Carleman means of multiple trigonometric Fourier series. (Russian. Russian and Ukrainian summaries) **94a:42007**
Leladze, D. V. On summability of subsequences of partial sums of trigonometric Fourier series. (Russian summary) **94f:42018**
— Conjugate trigonometric series. (Russian. English and Georgian summaries) **94e:42011**
— On some properties of multiple conjugate trigonometric series. (English and Georgian summaries) **94m:42029**
Li, Luo Qing Strong approximation of spherical functions by Cesàro means. (English summary) **94j:42020**
Liu, He Ping The generalized localization principle for Bochner-Riesz means. **94a:42008**
Liu, Yong Ping Approximation of signed measures and functions on the cube T_n by their B-R spherical means on the total measure set. (Chinese. Chinese summary) **94g:42016**
— Approximation of signed measures and functions on the cube T_n by their B-R spherical means on the total measure set. (English summary) **94h:42023**
Lu, Shan Zhen (*with* Yang, Da Chun) The boundedness of Bochner-Riesz means $B^{\delta}_R(f)$ on the spaces $\dot{F}^{\alpha,q}_p$. (English summary) **94f:42019**
Lu, Zhi Kang Approximation of Fourier integral by Bochner-Riesz means under one-side condition. (English summary) **94j:42021**
Meaney, C. (*with* Prestini, E.) On almost everywhere convergence. (English summary) **94m:42030**
Pandey, G. S. *see* **Vinchurkar, A. V.**
Pinsky, Mark A. Fourier inversion for multidimensional characteristic functions. (English summary) **94d:42016**
Prestini, E. *see* **Meaney, C., 94m:42030**
Skopina, M. A. The generalized Lebesgue sets of function of two variables. **94i:42017**
— Order of growth of quadratic partial sums of the double Fourier series. (Russian. Russian summary) **94e:42012**
Tkebuchava, G. E. Some properties of Hilbert transformations, conjugate functions and Bochner-Riesz spherical means. (Russian) **94k:42031**
Travaglini, Giancarlo Polyhedral summability of multiple Fourier series (and explicit formulas for Dirichlet kernels on $\mathbf{T}^n$ and on compact Lie groups). **94h:42024**
— *see also* **Colzani, Leonardo; et al., 94h:42022**
Trivedi, G. S. (*with* Beohar, B. K.) On the degree of approximation to a function by $(\tilde{N}, P_n)$ mean of its ultraspherical expansion. (English summary)
Vignati, Marco *see* **Colzani, Leonardo; et al., 94h:42022**
Vinchurkar, A. V. (*with* Pandey, G. S.) On the harmonic summability of double Fourier series. (English summary)
Yang, Da Chun *see* **Lu, Shan Zhen, 94f:42019**
Yu, Mao He On the localization and convergence of multiple Fourier integral by Bochner-Riesz means. (English summary) **94m:42031**
Zhizhiashvili, L. V. On the summation of multiple conjugate trigonometric series in the metric of the space L^p, $p \in (0, 1)$. (Russian. English and Georgian summaries) **94e:42013**

Items with secondary classifications in 42B08

Berens, Hubert (*with* Li, Luo Qing) On the de la Vallée-Poussin means on the sphere. (English summary) **94h:41037**
Frontini, M. (*with* Gotusso, Laura) A regularization method for discrete Fourier polynomials. (English summary) **94m:65207**
Gevorkyan, G. G. Uniqueness of multiple trigonometric series. (Russian) **94i:42016**
Gotusso, Laura *see* **Frontini, M., 94m:65207**
Li, Luo Qing *see* **Berens, Hubert, 94h:41037**
Lu, Shan Zhen Riesz means on the Besov space $\dot{B}^{01}_1(\mathbf{R})$. (Chinese. Chinese summary) **94b:46048**

Runovskiĭ, K. V. On families of linear polynomial operators in the spaces L_p, $0 < p < 1$. (Russian. Russian summary) **94i:42002**
(Strichartz, Robert S.) *see* **Thangavelu, Sundaram, 94i:42001**
Thangavelu, Sundaram ★ Lectures on Hermite and Laguerre expansions. **94i:42001**

42B10 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type

Bak, Jong-Guk Restrictions of Fourier transforms to flat curves in $\mathbf{R}^2$. **94m:42032**
Benedetto, John J. (*with* Heinig, Hans P.) Fourier transform inequalities with measure weights. II. **94d:42017**
Bloom, Steven (*with* Jurkat, Wolfgang B.; Sampson, G.) Two weighted (L^p, L^q) estimates for the Fourier transform. **94h:42025**
Bray, William O. A spectral Paley-Wiener theorem. (English summary) **94g:42017**
De Michele, Leonede (*with* Roux, Delfina) A stable method for the inversion of the Fourier transform in $\mathbf{R}^N$. (English and Italian summaries) **94j:42022**
Drury, Stephen W. (*with* Guo, Kang Hui) Some remarks on the restriction of the Fourier transform to surfaces. (English summary) **94f:42020**
Genchev, T. G. A simple proof of the inversion formula for Fourier transform. **94j:42023**
González Vieli, Francisco Javier Unicité dans $\mathbf{R}^n$. [Uniqueness in $\mathbf{R}^n$] **94j:42024**
Grigoryan, M. G. Convergence of Fourier-Laplace series in the L^p metric. (Russian) **94c:42009**
Guo, Kang Hui *see* **Drury, Stephen W., 94f:42020**
Heinig, Hans P. *see* **Benedetto, John J., 94d:42017**
Jurkat, Wolfgang B. *see* **Bloom, Steven; et al., 94h:42025**
Kargaev, P. P. (*with* Vol'berg, A. L.) Three results concerning the support of functions and their Fourier transforms. (English summary) **94d:42018**
Lai, Shanzhong Weighted norm inequalities for general operators on monotone functions. **94b:42005**
Lakey, Joseph D. Weighted restriction for curves. (English summary) **94c:42010**
Lau, Ka-Sing (*with* Wang, Jianrong) Mean quadratic variations and Fourier asymptotics of self-similar measures. (English summary) **94g:42018**
Nagel, Alexander (*with* Seeger, Andreas; Wainger, Stephen) Averages over convex hypersurfaces. **94m:42033**
Osmanov, G. I. On the absolute convergence of the Fourier integral in the space $\mathbf{R}^n$. (Russian) **94i:42018**
Ramm, Alexander G. (*with* Zaslavsky, Alexander I.) Asymptotic behavior of the Fourier transform of piecewise-smooth functions. (English and French summaries) **94d:42019**
Roux, Delfina *see* **De Michele, Leonede, 94j:42022**
Sampson, G. *see* **Bloom, Steven; et al., 94h:42025**
Seeger, Andreas *see* **Nagel, Alexander; et al., 94m:42033**
Strasburger, Aleksander A generalization of the Bochner identity. (English summary) **94b:42006**
Strichartz, Robert S. Self-similar measures and their Fourier transforms. III. (English summary) **94j:42025**
Sun, Li Min An uncertainty property on the Poincaré plane. (Chinese. Chinese summary) **94a:42009**
Vol'berg, A. L. *see* **Kargaev, P. P., 94d:42018**
Wainger, Stephen *see* **Nagel, Alexander; et al., 94m:42033**
Wang, Jianrong *see* **Lau, Ka-Sing, 94g:42018**
Wilson, J. Michael Two-weight norm inequalities for the Fourier transform. **94m:42034**
Zaslavsky, Alexander I. *see* **Ramm, Alexander G., 94d:42019**

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Antimirov, Maximilian Ya. (*with* Kolyshkin, A. A.; Vaillancourt, Rémi) ★ Applied integral transforms. **94g:44002**
Bézard, Max Une version générale de l'inégalité de Strichartz. (English and French summaries) [A generalization of the Strichartz inequality] **94f:35162**
de Boor, Carl (*with* DeVore, Ronald A.; Ron, Amos) Approximation from shift-invariant subspaces of $L_2(\mathbf{R}^d)$. (English summary) **94d:41028**
Colzani, Leonardo (*with* Travaglini, Giancarlo; Vignati, Marco) Bochner-Riesz means of functions in weak-L^p. (English summary) **94h:42022**
De Carli, Laura L^p estimates for the Cauchy transforms of distributions with respect to convex cones. (English summary) **94f:46052**
DeVore, Ronald A. *see* **de Boor, Carl; et al., 94d:41028**
Dunkl, Charles F. Hankel transforms associated to finite reflection groups. **94g:33011**
Gindikin, S. G. Conformal harmonic analysis on hyperboloids. (English summary) **94f:22020**
Howell, Kenneth B. A new theory for Fourier analysis. II. Further analysis on the space of test functions. (English summary) **94f:46046**
— A new theory for Fourier analysis. III. Basic analysis on the dual. (English summary) **94f:46047**
Jia, Rong Qing (*with* Micchelli, Charles A.) On linear independence for integer translates of a finite number of functions. (English summary) **94e:41044**
Karapetyan, A. O. Integral representations of holomorphic functions in radial tube domains. (Russian. Armenian summary) **94f:32008**
Kinukawa, Masakiti Uniform extensions and spectral synthesis. (English summary) **94f:43005**
Kolyshkin, A. A. *see* **Antimirov, Maximilian Ya.; et al., 94g:44002**
Kuritsyn, Yu. G. Multivariate versions and two problems of Schoenberg. **94e:60016**
Lighthill, Michael James Fourier asymptotics. (English summary) **94j:42015**
Liu, He Ping The generalized localization principle for Bochner-Riesz means. **94a:42008**
Menárguez, M. Trinidad (*with* Soria, Fernando) Weak type (1, 1) inequalities of maximal convolution operators. (English summary) **94i:42025**
Micchelli, Charles A. *see* **Jia, Rong Qing, 94e:41044**
Nillsen, Rodney Banach spaces of functions and distributions characterized by singular integrals involving the Fourier transform. (English summary) **94c:46057**
Pan, Yibiao L^2 estimates for convolution operators with oscillating kernels. **94a:47046**
Penzel, Frank Sobolev space methods for the Laplace equation in the exterior of the disk. (English summary) **94e:46062**
Ron, Amos *see* **de Boor, Carl; et al., 94d:41028**
Saitoh, Saburou The Hilbert spaces of Szegő type and Fourier-Laplace transforms on $\mathbf{R}^n$. **94h:46040**
Sekerin, A. B. A theorem on a support for the Radon transform in a complex space. (Russian) **94k:44003**
Soria, Fernando *see* **Menárguez, M. Trinidad, 94i:42025**
Tervo, Jouko A calculus of Fourier series operators. (English summary) **94g:47066**
Thangavelu, Sundaram On conjugate Poisson integrals and Riesz transforms for the Hermite expansions. **94c:42020**
Travaglini, Giancarlo *see* **Colzani, Leonardo; et al., 94h:42022**
Vaillancourt, Rémi *see* **Antimirov, Maximilian Ya.; et al., 94g:44002**
Vignati, Marco *see* **Colzani, Leonardo; et al., 94h:42022**
Yu, Mao He On the localization and convergence of multiple Fourier integral by Bochner-Riesz means. (English summary) **94m:42031**
Zwaan, M. ★ Moment problems in Hilbert space with applications to magnetic resonance imaging. **94h:47145**

42B15 Multipliers

Auscher, Pascal (*with* Carro, María J.) On relations between operators on $\mathbf{R}^N$, $\mathbf{T}^N$ and $\mathbf{Z}^N$. **94b:42007**
— (*with* Carro, María J.) Transference for radial multipliers and dimension free estimates. **94f:42021**
Burenkov, V. I. Fourier multipliers in weighted L_p-spaces with exponential weights. **94g:42019**
Carro, María J. *see* **Auscher, Pascal, 94b:42007** *and* **94f:42021**
González Vieli, Francisco Javier Construction de p-multiplicateurs. (English summary) [Construction of p-multipliers] **94g:42020**
Li, Jin Mei The boundedness of generalized Abel means defined in new Hardy $HA^p(\mathbf{R}^n)$ spaces. (English and Chinese summaries) **94g:42021**
Liu, Zhi Xin (*with* Lu, Shan Zhen) Transference and restriction of maximal multiplier operators on Hardy spaces. (English summary) **94g:42022**
Lu, Shan Zhen *see* **Liu, Zhi Xin, 94g:42022**
Nakai, Eiichi Pointwise multipliers for functions of weighted bounded mean oscillation. (English summary) **94h:42026**
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42B20 Singular integrals (Calderón-Zygmund, etc.)

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Deng, Dong Gao (*with* Han, Yong Sheng) The Besov spaces and Triebel-Lizorkin spaces over Lipschitz curves. I. Definitions and basic properties. (Chinese. Chinese summary) **94g:42024**
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42B25 Maximal functions, Littlewood-Paley theory

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Buckley, Stephen M. Summation conditions on weights. **94d:42021**

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Meaney, C. (*with* Prestini, E.) On almost everywhere convergence. (English summary) **94m:42030**
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42B30 H^p-spaces

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— *see also* **Nevai, Paul, 94d:42028** *and* **Borwein, Peter B.; et al., 94f:42026**
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Beerends, R. J. Some special values for the BC type hypergeometric function. **94c:33027**
Belmehdi, Saïd (*with* Marcellán, Francisco) Orthogonal polynomials associated with some modifications of a linear functional. (English summary) **94f:33012**
— On semi-classical linear functionals of class $s = 1$. Classification and integral representations. (English summary) **94e:33038**
Belov, B. I. The symmetry of a pair of general discretely orthogonal polynomials. (Russian) (*see* **94f:90003**)
Bonan-Hamada, Catherine M. (*with* Jones, William B.; Thron, W. J.; Magnus, Arne) Para-orthogonal Laurent polynomials and associated sequences of rational functions. (English summary) **94a:30029**
Bonakkaz, H. (*with* Maroni, P.) Description des polynômes orthogonaux de Laguerre-Hahn de classe zéro. (French summary) [Description of Laguerre-Hahn orthogonal polynomials of class zero] (*see* **94m:42003**)
Brezinski, Claude (*with* Matos, Ana Cristina) Least-squares orthogonal polynomials. (English summary) **94e:33008**
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Chihara, Theodore S. Comparison theorems for Hamburger moment problems. **94m:44004**
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Ellis, Robert Lee (*with* Gohberg, Israel; Lay, David C.) Distribution of zeros of matrix-valued continuous analogues of orthogonal polynomials. (English summary) **94g:47017**
Goh, William M. Y. (*with* Wimp, Jet) Asymptotics for the moments of singular distributions. (English summary) **94h:44002**
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— *see also* **Ellis, Robert Lee; et al., 94g:47017**
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Kwon, Kil Hyun (*with* Lee, J. K.; Yoo, B. H.) Characterizations of classical orthogonal polynomials. (English summary) **94i:33011**
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— (*with* Mthembu, Thandwa) Mean convergence of Lagrange interpolation for Erdős weights. (English summary) **94k:65015**
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Marcellán, Francisco (*with* Pérez Fernández, T.; Piñar, Miguel A.) On zeros of Sobolev-type orthogonal polynomials. (English and Italian summaries) **94f:33015**
— *see also* **Belmehdi, Saïd, 94f:33012**
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— *see also* **Bonakkaz, H., (94m:42003)**
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Ossicini, A. (*with* Rosati, F.) s-orthogonal Jacobi polynomials. (Italian. English and Italian summaries) **94b:33010**
Pan, K. Asymptotics for Szegő polynomials associated with Wiener-Levinson filters. (English summary) **94j:65150**
Pasquini, Lionello Computation of the zeros of orthogonal polynomials. (English summary) (*see* **94m:42003**)
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Raina, R. K. Determination of coefficients of power series representation of certain rational functions. (English summary) **94b:33011**
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— Sobolev inner products and orthogonal polynomials of Sobolev type. (English summary) **94b:33013**
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— (*with* Pepić, Medo) An integrability theorem on unbounded Vilenkin groups. (English summary) **94d:42032**
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— On the divergence of Walsh-Fourier series on measure zero sets. (Russian. English and Georgian summaries) **94k:42042**
Butzer, P. L. (*with* Engels, Wolfgang) Background to an extension of Gibbs differentiation in Walsh analysis. (English summary) **94d:42033**
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Gát, Gy. Vilenkin-Fourier series and limit periodic arithmetic functions. **94g:42042**
— Investigations of certain operators with respect to the Vilenkin system. **94d:42035**
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— (*with* Pérez, Mario; Varona, Juan L.) Weighted weak behaviour of Fourier-Jacobi series. (English summary) **94g:42045**
— (*with* Pérez, Mario; Ruiz Blasco, Francisco José; Varona, Juan L.) Endpoint weak boundedness of some polynomial expansions. (English summary) **94m:42066**
— (*with* Pérez, Mario; Ruiz Blasco, Francisco José; Varona, Juan L.) Mean and weak convergence of Fourier-Bessel series. (English summary) **94d:42036**
Gulichev, N. V. Estimates for the norms of Fourier-Walsh sums of bounded functions. (Russian. English summary) **94i:42033**
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— The p-adic differential-integral type operator. (Russian summary) **94k:42043**
Horváth, Á. P. Characterisation of Hermite-Fourier series. **94e:42032**
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Levizov, S. V. On the central limit theorem for series with respect to periodical multiplicative systems. II. **94f:42036**
Lu, Shan Zhen (*with* Yang, Da Chun) Weak Hardy spaces over locally compact Vilenkin groups. (Chinese. English and Chinese summaries) **94c:42019**
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Moskalev, O. B. The reconstruction of a positive function from its finite Fourier series. (English summary) **94f:42037**
Mu, Le Hua The convergence rate of mixed Fourier-Jacobi series of functions of bounded variation. (Chinese. English and Chinese summaries) **94h:42047**
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Tkebuchava, G. E. Absolute convergence of series of Fourier-Ciesielski coefficients. (Russian. English and Georgian summaries) **94g:42048**
— Unconditional convergence in systems of products of bases. (Russian. Russian summary) **94a:42035**
Varona, Juan L. Fourier series of functions whose Hankel transform is supported on $[0, 1]$. (English summary) **94m:42071**
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Xu, Cheng De (*with* Tian, Bo Ping) An approximation theorem for the family of Walsh functions and its application. (Chinese. English and Chinese summaries)
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Brunetti, Maria Enrica (*with* Zanelli, Vanna) Fractional derivation matrices for the Haar system. (Italian. English summary) **94f:26004**
Dinger, Ulla Weak type (1, 1) estimates of the maximal function for the Laguerre semigroup in finite dimensions. (English summary) **94g:42029**
Gorelov, V. A. On systems consisting of a finite and an infinite number of root functions of different boundary value problems. (Russian) **94g:47060**
Granados, B. Walsh wavelets. **94m:42076**
Gray, Alfred (*with* Pinsky, Mark A.) Computer graphics and a new Gibbs phenomenon for Fourier-Bessel series. (English summary) **94i:65023**
Grigoryan, M. G. Convergence of Fourier-Laplace series in the L^p metric. (Russian) **94c:42009**

Heurtaux, Frédéric (*with* Planchon, Fabrice; Wickerhauser, Mladen Victor) Scale decomposition in Burgers' equation. (English summary) **94j:94003**
Ismailov, K. Kh. (*with* Mamedov, M. I.) A new method for the factorization of matrices of Walsh functions. (Russian. English and Azerbaijani summaries) **94c:15035**
Kel'zon, A. A. Fourier and Fourier-Lagrange coefficients of functions of (m, Λ)-bounded variation. (Russian) **94j:42006**
Kitada, Toshiyuki (*with* Onneweer, C. W.) Hörmander-type multiplier theorems on locally compact Vilenkin groups. (English summary) **94c:43006**
Kubo, Fumio On Hilbert inequality. (English summary) **94f:26012**
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Marcellán, Francisco (*with* Van Assche, Walter) Relative asymptotics for orthogonal polynomials with a Sobolev inner product. (English summary) **94h:42037**
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Ould Kaber, Sidi Mahmoud (*with* Vandeven, Hervé) Reconstruction d'une fonction discontinue à partir de ses coefficients de Legendre. (English and French summaries) [Reconstruction of a discontinuous function from its Legendre coefficients] **94k:41011**
Page, Scott E. (*with* Richardson, David W.) Walsh functions, schema variance, and deception. **94e:68145**
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Skrzipek, Michael-Ralf Recurrence coefficients for Bernstein-Szegő type polynomials. (English summary) **94k:33017**
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42C20 Rearrangements and other transformations of Fourier and other orthogonal series

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Grigoryan, M. G. On some properties of orthogonal systems. (Russian) **94h:42036**
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42C25 Uniqueness and localization for orthogonal series

Yoneda, Kaoru Uniqueness theorems for Walsh Fourier analysis. (English summary) **94a:42055**

42C30 Completeness of sets of functions

Kopaliani, T. S. On the basis property of the Haar system in the space $L^{p(t)}[0,1]^n$. (Russian. English and Georgian summaries) **94b:42019**
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42C99 None of the above, but in this section

Gatto, A. Eduardo (*with* Vági, Stephen) On molecules and fractional integrals on spaces of homogeneous type with finite measure. (English summary) **94h:42063**
Navickas, Z. Formalization of the Fourier integral transformation. (Russian. Lithuanian summary) **94h:42064**
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43–XX Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx.}

43–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 43–01

Airault, H. *see* **Malliavin, Paul, 94j:28001**
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43–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 43–03

Derighetti, Antoine On the mathematical work of Hans Reiter. **94a:01036b**
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(Reiter, Hans J.) *see* **Derighetti, Antoine, 94a:01036b**

43A05 Measures on groups and semigroups, etc.

Dani, S. G. (*with* Shah, Riddhi) On infinitely divisible measures on certain finitely generated groups. **94m:43001**
Fan, Ai Hua Construction d'une classe de mesures D-ergodiques sur le tore $\mathbf{T}^d$. (English and French summaries) [Construction of a class of D-ergodic measures on the torus $\mathbf{T}^d$] **94i:43001**
Filali, M. On some special measures on βG. (English summary) **94m:43002**
Koshi, Shozo Locally compact abelian groups with the strong FMR property. (English summary) **94m:43003**
Shah, Riddhi *see* **Dani, S. G., 94m:43001**
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Akkouchi, Mohamed *see* **Bakali, Allal, 94e:43013**
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Boccuto, Antonio (*with* Candeloro, Domenico) Invariant means with special properties. **94e:43002**
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Dzinotyiweyi, Heneri A. M. A characterisation of absolutely continuous measures on topological semigroups. (English summary) **94j:22002**
Głowacki, Paweł Lipschitz continuity of densities of stable semigroups of measures. **94k:43008**
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Pap, Gyula Characterization of Gaussian semigroups on a Lie group. (English summary) **94k:60009**
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Strichartz, Robert S. Self-similarity on nilpotent Lie groups. (English summary) **94e:43011**
Wagon, Stan ★ The Banach-Tarski paradox. (English summary) **94g:04005**
Wildberger, Norman *see* **Dooley, Anthony H., 94e:22032**

43A07 Means on groups, semigroups, etc.; amenable groups

Adachi, Toshiaki A note on the Følner condition for amenability. **94h:43001**
Ayyaswamy, S. K. Some results on the size of invariant means. (English summary) **94k:43001**
Badora, Roman On an invariant mean for $\mathcal{F}$-essentially bounded functions. (English and Serbo-Croatian summaries) **94e:43001**
Boccuto, Antonio (*with* Candeloro, Domenico) Invariant means with special properties. **94e:43002**
Candeloro, Domenico *see* **Boccuto, Antonio, 94e:43002**
Forrest, Brian E. Amenability and the structure of the algebras $A_p(G)$. (English summary) **94g:43001**
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Nassar, Mostafa Recurrent points and discrete points for elementary amenable groups. (English summary) **94g:43002**
Sakai, Koukichi On Følner's numbers of finite transformation semigroups. **94f:43002**
Takahashi, Yuji Functions with a unique mean value and amenability. (English summary) **94i:43002**

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Delaporte, Jacques (*with* Derighetti, Antoine) On ideals of A_p with bounded approximate units and certain conditional expectations. **94k:43004**
Derighetti, Antoine *see* **Delaporte, Jacques, 94k:43004**
van Douwen, Eric K. Finitely additive measures on N. (English summary) **94c:28004**
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Forrest, Brian E. (*with* Skantharajah, Mahatheva) A note on a type of approximate identity in the Fourier algebra. **94d:43001**
Furuta, Koji Banach spaces generated by the coefficients of the conjugation representation. **94d:43002**
Gajda, Zbigniew ★ Invariant means and representations of semigroups in the theory of functional equations. (Russian and Polish summaries) **94b:39034**
Gebuhrer, Marc-Olivier Remarks on amenability of discrete hypergroups. **94g:43006**
de la Harpe, Pierre (*with* Robertson, A. Guyan; Valette, Alain) On the spectrum of the sum of generators of a finitely generated group. II. **94j:22008**
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Myasnikov, A. G. Amenable Banach $L_1(G)$-modules, invariant means and regularity in the sense of Arens. (Russian) **94k:46094**
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43A10 Measure algebras on groups, semigroups, etc.

Zeuner, Hansmartin Moment functions and laws of large numbers on hypergroups. **94f:43003**

Items with secondary classifications in 43A10

Mirotin, A. R. Positive semicharacters and the Laplace transform. (Russian. Russian and Ukrainian summaries) **94a:43001**
Patterson, Paul L. Involutions on algebras arising from locally compact groups. (English summary) **94i:46070**
Voit, Michael A positivity result and normalization of positive convolution structures. **94i:46066**
Ward, J. A. Factorization without bounded approximate identities. **94d:42011**

43A15 L^p-spaces and other function spaces on groups, semigroups, etc.

Derighetti, Antoine À propos d'un théorème de H. Reiter concernant l'application T_H et d'un théorème de C. Herz concernant les algèbres A_p. [On a theorem of H. Reiter concerning the mapping T_H and a theorem of C. Herz concerning the algebras A_p] (*see* **94j:00016**)
Forrest, Brian E. (*with* Skantharajah, Mahatheva) A note on a type of approximate identity in the Fourier algebra. **94d:43001**
Furuta, Koji Banach spaces generated by the coefficients of the conjugation representation. **94d:43002**
Graham, Colin C. (*with* Lau, Anthony To Ming) Bilinear operators on $L^\infty(G)$ of locally compact groups. (English summary) **94e:43003**
Hebisch, Waldemar (*with* Krawczyk, Jarosław) A remark on discontinuous translation invariant functionals on $L_p(G)$ for certain compact groups G. (English summary) **94a:43002**
Kim, Yonne Mi A restriction theorem on the Folland-Stein spaces. **94c:43001**
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Lau, Anthony To Ming *see* **Graham, Colin C., 94e:43003**
Lu, Shan Zhen (*with* Yang, Da Chun) Some new Hardy spaces on locally compact Vilenkin groups. **94e:43004**
Sedaghat, Hassan Boolean lattices of function algebras on rectangular semigroups. **94h:43002**
Skantharajah, Mahatheva *see* **Forrest, Brian E., 94d:43001**
Wade, W. R. Vilenkin-Fourier series and approximation. **94c:43002**
Yang, Da Chun *see* **Lu, Shan Zhen, 94e:43004**

Items with secondary classifications in 43A15

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Badora, Roman On an invariant mean for $\mathcal{S}$-essentially bounded functions. (English and Serbo-Croatian summaries) **94e:43001**
Blank, Brian E. Fourier decompositions with positive coefficients in compact Gel'fand pairs. (English summary) **94b:43002**
Bourgain, Jean A remark on the behaviour of L^p-multipliers and the range of operators acting on L^p-spaces. (English summary) **94m:46047**
Forrest, Brian E. Amenability and the structure of the algebras $A_p(G)$. (English summary) **94g:43001**
Gu, Dangsheng Two-weight norm inequality and Carleson measure in weighted Hardy spaces. (English summary) **94h:42030**
Gupta, Sanjiv Kumar (*with* Madan, Shobha; Tewari, U. B.) Multipliers on spaces of functions on compact groups with p-summable Fourier transforms. (English summary) **94d:43004**
He, Jian Xun Bernstein's first summable operators on the special real orthogonal group $SO(n)$. (English summary) **94b:41027**
Ivanov, V. I. On a lower bound on the constant in the Jackson inequality in different L_p-norms. (Russian. Russian summary) **94b:41028**
Kitada, Toshiyuki (*with* Onneweer, C. W.) Hörmander-type multiplier theorems on locally compact Vilenkin groups. (English summary) **94c:43006**
Madan, Shobha *see* **Gupta, Sanjiv Kumar; et al., 94d:43004**
Nillsen, Rodney Banach spaces of functions and distributions characterized by singular integrals involving the Fourier transform. (English summary) **94c:46057**
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— *see also* **Kitada, Toshiyuki, 94c:43006**
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Varopoulos, Nicholas Th. Théorie de Hardy-Littlewood sur les groupes de Lie. (English and French summaries) [Hardy-Littlewood theory on Lie groups] **94g:22022**
Ward, J. A. Factorization without bounded approximate identities. **94d:42011**
Yap, Leonard Y. H. On the ranges of certain convolution operators. **94a:43005**

43A17 Analysis on ordered groups, H^p-theory

Grigoryan, Souren Arshakovich Measures that are orthogonal to the algebra of functions that are generalized analytic in the sense of Arens and Singer. (Russian. Russian summary) **94j:43001**
— Generalized meromorphic functions. (Russian. Russian summary) **94c:43003**
Gupta, Sanjiv Kumar (*with* Madan, Shobha; Tewari, U. B.) The conjugation operator on $A_q(G)$. (English summary) **94g:43003**
Madan, Shobha *see* **Gupta, Sanjiv Kumar; et al., 94g:43003**
Tewari, U. B. *see* **Gupta, Sanjiv Kumar; et al., 94g:43003**
Yamaguchi, Hiroshi[2] Absolute continuity of measures on compact transformation groups. **94d:43003**

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Lancien, F. Bases dans la "big disk algebra" et dans l'espace de Hardy correspondant. [Bases in the big disk algebra and the corresponding Hardy space] **94m:46086**
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Semmes, Stephen A primer on Hardy spaces, and some remarks on a theorem of Evans and Müller. (English summary) **94j:46038**
Xu, Zeng Fu The generalized Abel means of H^p functions ($0 < p \leq 1$) on compact Lie groups. (English summary) **94i:43005**

43A20 L^1-algebras on groups, semigroups, etc.

El-Fallah, O. Idéaux fermés de $L^1(\mathbf{R}_+)$. [Closed ideals in $L^1(\mathbf{R}_+)$] **94j:43002**
Esterle, J. (*with* Strouse, E.; Zouakia, F.) Closed ideals of the algebra of absolutely convergent Taylor series. (English summary) **94k:43002**
Lau, Anthony To Ming (*with* Medgalchi, A. R.; Pym, J. S.) On the spectrum of $L^\infty(G)$. (English summary) **94k:43003**
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Zouakia, F. *see* **Esterle, J.; et al., 94k:43002**

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Agranovskiĭ, M. L. (*with* Berenstein, Carlos A.; Chang, Der-Chen) Morera theorem for holomorphic H^p spaces in the Heisenberg group. **94m:43016**
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Chang, Der-Chen *see* **Agranovskiĭ, M. L.; et al., 94m:43016**
Hermann, Peter Induced representations and hypergroup homomorphisms. (English summary) **94m:43011**
Kumar, Ajay[1] A qualitative uncertainty principle for hypergroups. **94a:43012**
Patterson, Paul L. Involutions on algebras arising from locally compact groups. (English summary) **94i:46070**

43A22 Homomorphisms and multipliers of function spaces on groups, semigroups, etc.

Aiena, Pietro Multipliers and convolution operators with natural spectrum on group algebras. (English summary) **94c:43004**
Delaporte, Jacques (*with* Derighetti, Antoine) On ideals of A_p with bounded approximate units and certain conditional expectations. **94k:43004**
Derighetti, Antoine *see* **Delaporte, Jacques, 94k:43004**
Dorofaeff, Brian The Fourier algebra of $SL(2, \mathbf{R}) \ltimes \mathbf{R}^n$, $n \geq 2$, has no multiplier bounded approximate unit. **94k:43005**
Guo, Yu Tao Multipliers of Segal algebras. (Chinese. Chinese summary) **94j:43003**
Gupta, Sanjiv Kumar (*with* Madan, Shobha; Tewari, U. B.) Multipliers on spaces of functions on compact groups with p-summable Fourier transforms. (English summary) **94d:43004**
Hare, Kathryn E. Tame L^p-multipliers. **94c:43005**
Johnson, Barry Edward Weakly compact homomorphisms from group algebras. **94a:43004**
Kitada, Toshiyuki (*with* Onneweer, C. W.) Hörmander-type multiplier theorems on locally compact Vilenkin groups. (English summary) **94c:43006**
— Multipliers for weighted Hardy spaces on locally compact Vilenkin groups. (English summary) **94i:43003**
Liu, He Ping Commutators of multipliers on the Heisenberg group. (English summary) **94m:43004**
Madan, Shobha *see* **Gupta, Sanjiv Kumar; et al., 94d:43004**
Onneweer, C. W. (*with* Quek, T. S.) Multipliers for Hardy spaces on locally compact Vilenkin groups. (English summary) **94i:43004**
— *see also* **Kitada, Toshiyuki, 94c:43006**
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Singh, Ajit Iqbal (*with* Vasudeva, H. L.) Multipliers for some spaces of vector-valued functions. (English summary) **94e:43005**
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Yap, Leonard Y. H. On the ranges of certain convolution operators. **94a:43005**

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Cîrnu, Mircea Carleman operators which commute with the translations. (English summary) **94k:47045**
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Hazewinkel, Michiel Wavelets understand fractals. (English summary) **94g:58140**
Lai, Han Ch'ing Functional representations of bounded linear operators. (English summary) **94k:47047**
Laursen, Kjeld B. *see* **Aiena, Pietro, 94j:46051**
Saxe, Karen Essential order spectra of convolution operators. (English summary) **94e:47045**
Shteĭnberg, B. Ya. *see* **Deundyak, V. M., 94m:47051**
Sun, Li Min Singular integrals on homogeneous groups. (Chinese. English and Chinese summaries) **94g:43008**

43A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups

Huang, Ming Chieh Harmonic analysis for operators in homogeneous classes. (English summary) **94m:43005**

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Graham, Colin C. (*with* Ylinen, Kari) Classes of trimeasures: applications of harmonic analysis. **94g:46061**
Hogan, Jeffrey A. A qualitative uncertainty principle for unimodular groups of type I. **94b:43003**
Kaufman, Robert P. A class of sets between U_0 and M_0. **94k:43007**
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Ludwig, Jean (*with* Zahir, Hamid) On the nilpotent $*$-Fourier transform. (English summary) **94k:22017**
Pan, Yibiao A remark on convolution with measures supported on curves. (English summary) **94f:42022**
Rosenblatt, Joseph M. Norm convergence in ergodic theory and the behavior of Fourier transforms. (English summary) **94m:28032**
Takagi, Masako The Stone-Weierstrass property in quotient algebras, and sets of spectral resolution. **94e:46095**
Ylinen, Kari *see* **Graham, Colin C., 94g:46061**
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43A30 Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.

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Hogan, Jeffrey A. A qualitative uncertainty principle for unimodular groups of type I. **94b:43003**
Wolf, Joseph A. The uncertainty principle for Gel'fand pairs. (English summary) **94k:43006**

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Mirotin, A. R. Positive semicharacters and the Laplace transform. (Russian. Russian and Ukrainian summaries) **94a:43001**
Pap, Gyula Characterization of Gaussian semigroups on a Lie group. (English summary) **94k:60009**
Ressel, Paul Bochner's theorem for finite-dimensional conelike semigroups. **94f:43004**
Sun, Li Min An uncertainty property on the Poincaré plane. (Chinese. Chinese summary) **94a:42009**
Valette, Alain Weak amenability of right-angled Coxeter groups. **94a:46103**

43A32 Other transforms and operators of Fourier type

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Dunkl, Charles F. Hankel transforms associated to finite reflection groups. **94g:33011**
de Jeu, M. F. E. The Dunkl transform. (English summary) **94m:22011**
Yamaguchi, Hiroshi[2] Absolute continuity of measures on compact transformation groups. **94d:43003**

43A35 Positive definite functions on groups, semigroups, etc.

Bisgaard, Torben Maack Positive definite operator sequences. **94j:43004**
Młotkowski, Wojciech Positive and negative definite kernels on trees. **94e:43006**
— Type-dependent positive definite functions on free products of groups. **94a:43006**
Ressel, Paul Bochner's theorem for finite-dimensional conelike semigroups. **94f:43004**
Zinsser, Brigitta Negative definite functions on groups acting on homogeneous trees. (English and French summaries) **94a:43007**

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Akkouchi, Mohamed *see* **Bakali, Allal, 94e:43013**
Bakali, Allal (*with* Akkouchi, Mohamed) Une généralisation des paires de Guelfand. (Italian summary) [A generalization of Gel'fand pairs] **94e:43013**
Bekka, Mohammed E. B. (*with* Valette, Alain) On duals of Lie groups made discrete. **94k:22003**
Belanger, Alain (*with* Forrest, Brian E.) Geometric properties of some subspaces of VN(G). (English summary) **94k:22007**
Bloom, Walter R. (*with* Heyer, Herbert; Wang, Yan) Positive definite functions and the Lévy continuity theorem for commutative hypergroups. **94f:43008**
Bruzual, Ramón Unitary extensions of two-parameter local semigroups of isometric operators and the Krein extension theorem. (English summary) **94h:47070**
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He, Yuan Jiang Central limit properties of GZH-semigroups and their applications in probability theory. (English summary) **94c:60014**
Hermann, Peter Induced representations of hypergroups. **94d:22006**
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Jolissaint, Paul Property T for discrete groups in terms of their regular representation. **94m:22007**
Molnár, Lajos Reproducing kernel Hilbert A-modules. (English and Serbo-Croatian summaries) **94k:46103**
Valette, Alain *see* **Bekka, Mohammed E. B., 94k:22003**
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43A40 Character groups and dual objects

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Quan, Xiu Chi Haar measures on Hopf C^*-algebras. (English summary) **94c:22007**
Voit, Michael Projective and inductive limits of hypergroups. (English summary) **94m:43012**

43A45 Spectral synthesis on groups, semigroups, etc.

Guo, Kang Hui On the p-thin problem for hypersurfaces of $\mathbf{R}^n$ with zero Gaussian curvature. (English summary) **94a:43008**
— A remark on the spectral synthesis property for hypersurfaces of $\mathbf{R}^n$. **94g:43004**
Kinukawa, Masakiti Uniform extensions and spectral synthesis. (English summary) **94f:43005**
Platonov, S. S. Spectral synthesis on symmetric spaces of rank 1. (Russian. Russian summary) **94a:43009**
Wawrzyńczyk, Antoni A. On the spectral synthesis of translation invariant algebras of smooth functions. (English summary) **94f:43006**
Zarrabi, Mohamed Ensembles de non synthèse pour certains poids dissymétriques sur la droite. (English summary) [Sets of nonsynthesis for certain asymmetric weights on the line] **94e:43007**
Zerouali, Elhassan Synthèse spectrale dans une certaine limite projective d'algèbres de Beurling. (English and French summaries) [Spectral synthesis in a certain projective limit of Beurling algebras] **94c:43007**

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Lee, Jong-Pyo Spectral synthesis in commutative regular Banach algebras. **94h:46082**
Takagi, Masako The Stone-Weierstrass property in quotient algebras, and sets of spectral resolution. **94e:46095**
Zarrabi, Mohamed Contractions à spectre dénombrable et propriétés d'unicité des fermés dénombrables du cercle. (English and French summaries) [Contractions with countable spectrum and uniqueness properties of closed countable subsets of the circle] **94b:47048**

43A46 Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.)

Finet, Catherine Ensembles lacunaires dans les groupes localement compacts abéliens. [Lacuanary sets in abelian locally compact groups] (*see* **94j:00016**)
— (*with* Tardivel-Nachef, Valérie) Lacunary sets on transformation groups. **94m:43006**
Grow, David E. (*with* Insall, Matt) An extremal set of uniqueness? **94d:43005**
Grubb, D. J. Dirichlet sets in Vilenkin groups. **94j:43005**
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Kahane, Sylvain On the complexity of sums of Dirichlet measures. (English and French summaries) **94h:43003**
— Finite union of H-sets and countable compact sets. **94e:43008**
— Antistable classes of thin sets in harmonic analysis. **94g:43005**
Kalton, N. J. On vector-valued inequalities for Sidon sets and sets of interpolation. **94a:43010**
Kaufman, Robert P. A class of sets between U_0 and M_0. **94k:43007**
Tardivel-Nachef, Valérie *see* **Finet, Catherine, 94m:43006**
Watbled, Frédérique Ensembles de Rosenthal pour des fonctions à valeurs Banach. (French summary) [Rosenthal sets for Banach-valued functions] **94m:43007**

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Dowling, Patrick N. Rosenthal sets and the Radon-Nikodým property. (English summary) **94c:46031**
Pfeffer, Carolyn Fejér theorems on compact solvmanifolds. **94i:43007**
Rosenblatt, Joseph M. Norm convergence in ergodic theory and the behavior of Fourier transforms. (English summary) **94m:28032**
Schmerl, James H. *see* **Blei, Ron C., 94b:05204**
Takagi, Masako The Stone-Weierstrass property in quotient algebras, and sets of spectral resolution. **94e:46095**

43A50 Convergence of Fourier series and of inverse transforms

Cazzaniga, Franco (*with* Travaglini, Giancarlo) On pointwise convergence and localization for Fourier series on compact Lie groups. **94f:43007**
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Xu, Zeng Fu The generalized Abel means of H^p functions ($0 < p \leq 1$) on compact Lie groups. (English summary) **94i:43005**

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Wade, W. R. Vilenkin-Fourier series and approximation. **94c:43002**
Young, Wo-Sang Weighted norm inequalities for Vilenkin-Fourier series. **94a:42038**

43A55 Summability methods on groups, semigroups, etc. [see also 40J05]

Peetre, Jaak (*with* Zhang, Gen Kai) A weighted Plancherel formula. III. The case of the hyperbolic matrix ball. (English summary) **94m:43008**
Shtern, A. I. Almost convergence and its applications to the Fourier-Stieltjes localization. (English summary) **94m:43009**
Zhang, Gen Kai A weighted Plancherel formula. II. The case of the ball. **94e:43009**
— *see also* **Peetre, Jaak, 94m:43008**

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Cakalli, Hüseyin A note on summability of series in topological groups. (English summary) **94b:40007**
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Stempak, Krzysztof Almost everywhere summability of Laguerre series. II. (English summary) **94a:42053**

43A60 Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost automorphic functions

Osipov, V. F. ★ Почти периодические функции Бора-Френеля. (Russian. Russian summary) [Bohr-Fresnel almost-periodic functions] **94a:43011**
Zhang, Chuan Yi Integration of vector-valued pseudo-almost periodic functions. (English summary) **94m:43010**

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Gaishun, I. V. On a class of operators in the space of continuous functions on a locally compact commutative group. (Russian. Russian summary) **94m:47062**
Galvin, Fred (*with* Muraz, Gilbert; Szeptycki, Pawel) Fonctions aux différences $f(x) - f(a+x)$ continues. (English and French summaries) [Functions with continuous differences $f(x) - f(a+x)$] **94b:39035**
Hermann, Peter Induced representations of hypergroups. **94d:22006**
Jorgensen, Palle E. T. (*with* Pedersen, Steen) Group-theoretic and geometric properties of multivariable Fourier series. **94k:42050**
Ménard, E. (*with* Troallic, Jean-Pierre) Semigroupes de contractions linéaires sur $\mathscr{C}(X)$: irréductibilité et théorèmes de convergence. [Linear contraction semigroups on $\mathscr{C}(X)$: irreducibility and convergence theorems] **94d:47044**
Muraz, Gilbert *see* **Galvin, Fred; et al., 94b:39035**
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Péraire, Yves Infinitesimal approach of [to] almost-automorphic functions. (English summary) **94m:03103**
Szeptycki, Pawel *see* **Galvin, Fred; et al., 94b:39035**
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Ziegler, François Subsets of $\mathbf{R}^n$ which become dense in any compact group. (English summary) **94e:22009**

43A62 Hypergroups

Bloom, Walter R. (*with* Heyer, Herbert; Wang, Yan) Positive definite functions and the Lévy continuity theorem for commutative hypergroups. **94f:43008**
Connett, William C. (*with* Markett, Clemens; Schwartz, Alan L.) Jacobi polynomials and related hypergroup structures. **94e:43010**
Gebuhrer, Marc-Olivier Remarks on amenability of discrete hypergroups. **94g:43006**
Hermann, Peter Induced representations and hypergroup homomorphisms. (English summary) **94m:43011**
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Voit, Michael Projective and inductive limits of hypergroups. (English summary) **94m:43012**
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Zeuner, Hansmartin Duality of commutative hypergroups. (English summary) **94a:43013**

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Gallardo, Léonard The rate of escape of a polynomial random walk on $\mathbf{N}^2$. (English summary) **94d:60108**
Hermann, Peter Induced representations of hypergroups. **94d:22006**
Koornwinder, Tom H. Positive convolution structures associated with quantum groups. **94m:17014**
Lasser, R. Orthogonal polynomials and hypergroups. II. The symmetric case. **94d:33005**
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Voit, Michael A law of the iterated logarithm for Markov chains on $\mathbf{N}_0$ associated with orthogonal polynomials. (English summary) **94k:60106**
Vol'kovich, V. Ė. On symmetric stochastic convolutions. (English summary) **94f:60014**
Xu, Da Ming *see* **Ross, Kenneth A., 94k:60011**

43A65 Representations of groups, semigroups, etc. [see also 22A10, 22A20, 22Dxx, 22E45]

Kuhn, M. Gabriella Anisotropic random walks on free products of cyclic groups, irreducible representations and idempotents of $C^*_{\mathrm{reg}}(G)$. **94d:43006**

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Bisgaard, Torben Maack Positive definite operator sequences. **94j:43004**
(Connes, Alain) *see* **Enock, Michel, 94e:46001**
Enock, Michel (*with* Schwartz, Jean-Marie) ★ Kac algebras and duality of locally compact groups. (English summary) **94e:46001**
Gebuhrer, Marc-Olivier Remarks on amenability of discrete hypergroups. **94g:43006**
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43A70 Analysis on specific locally compact abelian groups [see also 11R56, 22B05]

Asmar, Nakhlé (*with* Montgomery-Smith, Stephen) On the distribution of Sidon series. **94i:43006**
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Daly, James E. (*with* Kurtz, Douglas S.) BMO and singular integrals over local fields. (English summary) **94b:43004**
Hebisch, Waldemar Multiplier theorem on generalized Heisenberg groups. **94m:43013**
Jiang, Hui Kun Kernels of de la Vallée-Poussin type on a-adic groups and their application. (Chinese. English summary) **94m:43014**
Kurtz, Douglas S. *see* **Daly, James E., 94b:43004**
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Gaishun, I. V. On a class of operators in the space of continuous functions on a locally compact commutative group. (Russian. Russian summary) **94m:47062**
Gát, Gy. Vilenkin-Fourier series and limit periodic arithmetic functions. **94g:42042**
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— Multipliers for weighted Hardy spaces on locally compact Vilenkin groups. (English summary) **94i:43003**
Lu, Shan Zhen (*with* Yang, Da Chun) Weak Hardy spaces over locally compact Vilenkin groups. (Chinese. English and Chinese summaries) **94c:42019**
Moraga, Claudio *see* **Stanković, Radomir S., 94b:22002**
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Stanković, Radomir S. (*with* Moraga, Claudio) Real Gibbs derivatives on finite abelian groups. (English summary) **94b:22002**
Wade, W. R. Vilenkin-Fourier series and approximation. **94c:43002**
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43A75 Analysis on specific compact groups

Stanković, Radomir S. Some remarks on Gibbs derivatives on finite dyadic groups. (English summary) **94a:43014**
— Gibbs derivatives on finite nonabelian groups. (English summary) **94a:43015**
Xiao, Chang Bai Fourier coefficients of functions with small supports on 0-dimensional compact abelian groups. (English summary) **94m:43015**

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Daly, James E. (*with* Kurtz, Douglas S.) BMO and singular integrals over local fields. (English summary) **94b:43004**
Dezern, David H. (*with* Waterman, Daniel) On the Lebesgue test for the convergence of Vilenkin-Fourier series. **94d:42034**
Kurtz, Douglas S. *see* **Daly, James E., 94b:43004**
Peetre, Jaak (*with* Zhang, Gen Kai) Harmonic analysis on the quantized Riemann sphere. (English summary) **94b:47034**
Rosenthal, Jeffrey S. Random walks on discrete and continuous circles. (English summary) **94g:60130**
Waterman, Daniel *see* **Dezern, David H., 94d:42034**
Zhang, Gen Kai *see* **Peetre, Jaak, 94b:47034**

43A80 Analysis on other specific Lie groups [see also 22Exx]

Agranovskii, M. L. (*with* Berenstein, Carlos A.; Chang, Der-Chen) Morera theorem for holomorphic H^p spaces in the Heisenberg group. **94m:43016**
Berenstein, Carlos A. *see* **Agranovskii, M. L.; et al., 94m:43016**
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Dziubański, Jacek On semigroups generated by subelliptic operators on homogeneous groups. **94d:43007**
Głowacki, Paweł Lipschitz continuity of densities of stable semigroups of measures. **94k:43008**
Strichartz, Robert S. Self-similarity on nilpotent Lie groups. (English summary) **94e:43011**
Sun, Li Min Singular integrals on homogeneous groups. (Chinese. English and Chinese summaries) **94g:43008**
Thangavelu, Sundaram On Paley-Wiener theorems for the Heisenberg group. (English summary) **94m:43017**

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Alexopoulos, G. An application of homogenization theory to harmonic analysis on solvable Lie groups of polynomial growth. (English summary) **94k:22018**
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Zorich, A. V. Inversion of horospherical integral transform on real semisimple Lie groups. (English summary) **94b:22013**

43A85 Analysis on homogeneous spaces

Badertscher, Erich The Pompeiu problem on locally symmetric spaces. **94c:43008**
van den Ban, E. P. (*with* Schlichtkrull, Henrik) Multiplicities in the Plancherel decomposition for a semisimple symmetric space. **94e:43012**
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Bertram, Wolfgang Généralisation d'une formule de Ramanujan dans le cadre de la transformation de Fourier sphérique associée à la complexification d'un espace symétrique compact. (English and French summaries) [A formula of Ramanujan generalized in the framework of the spherical Fourier transform associated with the complexification of a compact symmetric space] **94d:43008**
El Harchaoui, Mimoun Inversion de la transformation de Pompeiu dans le disque hyperbolique (cas de deux disques). (English summary) [Inversion of the Pompeiu transform in the hyperbolic disk (the case of two disks)] **94m:43019**
Kauffman, Robert M. Operator algebras and symmetric spaces. **94m:43020**
Lu, Shan Zhen (*with* Zheng, Xue An) Harmonic analysis on compact homogeneous spaces. II. Poisson nontangential maximal functions. (Chinese. English and Chinese summaries) **94k:43009**
— (*with* Zheng, Xue An) Harmonic analysis on compact homogeneous spaces. III. H^p-spaces and their atomic decomposition. (Chinese. English and Chinese summaries) **94k:43010**
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Ōshima, Toshio (*with* Saburi, Yutaka; Wakayama, Masato) Paley-Wiener theorems on a symmetric space and their application. (English summary) **94f:43009**
Pfeffer, Carolyn Fejér theorems on compact solvmanifolds. **94i:43007**
Saburi, Yutaka *see* **Ōshima, Toshio; et al., 94f:43009**
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Sun, Li Min An uncertainty principle on hyperbolic space. (English summary) **94h:43005**
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Ye, Fang Cao A method for finding a basis of the set of invariant differential operators on some Riemannian symmetric spaces. (Chinese. Chinese summary) **94b:43005**
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Babillot, Martine Potential at infinity on symmetric spaces and Martin boundary. **94f:31012**
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Damek, Ewa Maximal functions related to subelliptic operators invariant under an action of a nilpotent Lie group. (English summary) **94b:22006**
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Koornwinder, Tom H. *see* **Badertscher, Erich, 94k:43011**
Peetre, Jaak Moebius invariant function spaces—the case of hyperbolic space. (English summary) **94d:46026**
Platonov, S. S. Spectral synthesis on symmetric spaces of rank 1. (Russian. Russian summary) **94a:43009**
Raugi, Albert *see* **Conze, J.-P., 94f:60012**
Sekerin, A. B. A theorem on a support for the Radon transform in a complex space. (Russian) **94k:44003**
Strichartz, Robert S. Complementary series and exotic Sobolev norms. (English summary) **94k:22027**
Sun, Li Min An uncertainty property on the Poincaré plane. (Chinese. Chinese summary) **94a:42009**
Taylor, John Christopher Compactifications determined by a polyhedral cone decomposition of $\mathbf{R}^n$. (English summary) **94f:31013**
Weit, Y. *see* **Benyamini, Y., 94d:43009**
Yacoub, Chokri Approximation de fonctions sur un espace symétrique compact par des polynômes sphériques. (English and French summaries) [Approximation of functions on a compact symmetric space by spherical polynomials] **94f:22015**

43A90 Spherical functions [see also 22E45, 22E46, 33C65, 33D55]

Akkouchi, Mohamed *see* **Bakali, Allal, 94e:43013**
Badertscher, Erich (*with* Koornwinder, Tom H.) Continuous Hahn polynomials of differential operator argument and analysis on Riemannian symmetric spaces of constant curvature. (English summary) **94k:43011**
Bakali, Allal (*with* Akkouchi, Mohamed) Une généralisation des paires de Guelfand. (Italian summary) [A generalization of Gel'fand pairs] **94e:43013**
Benke, George A spherical Wiener-Plancherel formula. (English summary) **94a:43016**
Benyamini, Y. (*with* Weit, Y.) Harmonic analysis of spherical functions on SU(1, 1). (English and French summaries) **94d:43009**
Koornwinder, Tom H. *see* **Badertscher, Erich, 94k:43011**
Kowata, Atsutaka (*with* Wada, Ryoko) Zonal polynomials on the space of 3×3 positive definite symmetric matrices. **94a:43017**
Wada, Ryoko *see* **Kowata, Atsutaka, 94a:43017**
Weit, Y. *see* **Benyamini, Y., 94d:43009**

Items with secondary classifications in 43A90

Angel, Jeff (*with* Celniker, Nancy; Poulos, Steven; Terras, Audrey; Trimble, Cindy; Velasquez, Elinor) Special functions on finite upper half planes. **94h:11041**
Celniker, Nancy *see* **Angel, Jeff; et al., 94h:11041**
Gordon, E. I. Nonstandard analysis and locally compact abelian groups. **94f:22004**
Koornwinder, Tom H. Positive convolution structures associated with quantum groups. **94m:17014**
Matsuo, Atsushi Integrable connections related to zonal spherical functions. (English summary) **94g:33013**
Młotkowski, Wojciech Type-dependent positive definite functions on free products of groups. **94a:43006**
Peetre, Jaak (*with* Zhang, Gen Kai) A weighted Plancherel formula. III. The case of the hyperbolic matrix ball. (English summary) **94m:43008**
Poulos, Steven *see* **Angel, Jeff; et al., 94h:11041**
Terras, Audrey *see* **Angel, Jeff; et al., 94h:11041**
Trimble, Cindy *see* **Angel, Jeff; et al., 94h:11041**
Velasquez, Elinor *see* **Angel, Jeff; et al., 94h:11041**
Volchkov, V. V. On a problem of Zalcman and its generalizations. (Russian) **94i:43008**
Watanabe, Shigeru Generating functions for the spherical functions on some classical Gel'fand pairs. **94b:22009**
Zhang, Gen Kai A weighted Plancherel formula. II. The case of the ball. **94e:43009**
— *see also* **Peetre, Jaak, 94m:43008**

43A99 Miscellaneous topics

Casadio Tarabusi, Enrico (*with* Cohen, Joel M.; Colonna, Flavia; Picardello, Massimo A.) Characterization of the range and functional analysis of the X-ray transform on trees. (English and French summaries) **94a:43018**
Cohen, Joel M. *see* **Casadio Tarabusi, Enrico; et al., 94a:43018**
Colonna, Flavia *see* **Casadio Tarabusi, Enrico; et al., 94a:43018**
Liang, Hsien A Grenander and Szegő limit theorem for Toeplitz operators on locally compact abelian groups. (English summary) **94a:43019**
Picardello, Massimo A. *see* **Casadio Tarabusi, Enrico; et al., 94a:43018**
Yang, George K. Solutions to a filtering problem and convolution equations. (English summary) **94f:43010**

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Bendikov, A. D. (*with* Pavlov, I. V.) Characterization of the Poisson integral in the space $\mathrm{BMO}_2(T^\infty)$. (Russian) (*see* **94i:46001**)
Casadio Tarabusi, Enrico (*with* Cohen, Joel M.; Picardello, Massimo A.) The horocyclic Radon transform on nonhomogeneous trees. (English summary) **94b:44002**
Cohen, Joel M. (*with* Colonna, Flavia) The functional analysis of the X-ray transform on trees. (English summary) **94a:05048**
— *see also* **Casadio Tarabusi, Enrico; et al., 94b:44002**
Colonna, Flavia *see* **Cohen, Joel M., 94a:05048**
Cowling, Michael (*with* Meda, Stefano) Harmonic analysis and ultracontractivity. **94b:47050**
Felix, Rainer Radon-Transformation auf nilpotenten Lie-Gruppen. [Radon transform on nilpotent Lie groups] **94f:22012**
Feyel, Denis (*with* de La Pradelle, Arnaud) Harmonic analysis in infinite dimension. (English summary) **94m:28022**
Gatto, A. Eduardo (*with* Vági, Stephen) On the exponential integrability of fractional integrals on spaces of homogeneous type. (English summary) **94g:42033**
de La Pradelle, Arnaud *see* **Feyel, Denis, 94m:28022**
Meda, Stefano *see* **Cowling, Michael, 94b:47050**
Musielak, Julian Nonlinear approximation in some modular function spaces. I. (English summary) **94e:41034**
Paschke, William L. A numerical invariant for finitely generated groups via actions on graphs. (English summary) **94e:20005**
Pavlov, I. V. *see* **Bendikov, A. D., (94i:46001)**
Picardello, Massimo A. *see* **Casadio Tarabusi, Enrico; et al., 94b:44002**
Vági, Stephen *see* **Gatto, A. Eduardo, 94g:42033**

44–XX Integral transforms, operational calculus {For fractional derivatives and integrals, see 26A33. For Fourier transforms, see 42A38, 42B10. For integral transforms in distribution spaces, see 46F12. For numerical methods, see 65R10.}

44–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 44–01

Mamedov, R. G. ★ Преобразование Меллина и теория приближения. (Russian. Russian summary) [The Mellin transform and approximation theory] **94g:44003**

44A05 General transforms [see also 42A38]

Lenyuk, M. P. (*with* Yanosh, I. Z.) Hybrid integral transforms (Fourier, Legendre, Bessel) on a right-bounded Cartesian half-axis. (Ukrainian. Ukrainian summary) **94g:44001**
Mahato, Anil Kumar (*with* Saksena, K. M.) An integral transform of generalized functions. I. (English summary) **94d:44001**
Podlubny, I. Orthogonal with nonintegrable weight function Jacobi polynomials and their application to singular integral equations in elasticity and heat conduction problems. (English summary) **94e:44001**
Ram, Jeta *see* **Saigo, Megumi; et al., 94j:44001**
Saigo, Megumi (*with* Saxena, Ram Kishore; Ram, Jeta) Certain properties of operators of fractional integration associated with Mellin and Laplace transformations. (English summary) **94j:44001**
Saksena, K. M. *see* **Mahato, Anil Kumar, 94d:44001**
Saxena, Ram Kishore *see* **Saigo, Megumi; et al., 94j:44001**
Yanosh, I. Z. *see* **Lenyuk, M. P., 94g:44001**

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Betancor, Jorge J. (*with* Marrero, I.) Multipliers of Hankel transformable generalized functions. (English summary) **94f:46051**
Kim Khe En Continuation of the solutions of systems of partial differential equations. (Russian) **94b:35061**
Lanckau, Eberhard ★ Complex integral operators in mathematical physics. (English summary) **94i:35045**
Luchko, Yu. F. *see* **Srivastava, Hari M.; et al., 94j:26016**
Marrero, I. *see* **Betancor, Jorge J., 94f:46051**
Poonam (*with* Sethi, P. L.) Generalization of Lowndes operators. (Hindi. English and Hindi summaries) **94i:44005**
Sethi, P. L. *see* **Poonam, 94i:44005**
Srivastava, Hari M. (*with* Yakubovich, S. B.; Luchko, Yu. F.) New families of Leibniz type rules for fractional calculus and their integral analogues. (English summary) **94j:26016**
Yakubovich, S. B. *see* **Srivastava, Hari M.; et al., 94j:26016**

44A10 Laplace transform

Antimirov, Maximilian Ya. (*with* Kolyshkin, A. A.; Vaillancourt, Rémi) ★ Applied integral transforms. **94g:44002**
Arrieta de Uzcátegui, Xiomara (*with* Kalla, Shyam L.) Some results on the fractional diffusion equation. (Spanish. English and Spanish summaries) **94j:44002**
Buschman, R. G. Inverses of Laplace transforms related to diffusion problems. (English summary) **94f:44001**
Chaturvedi, V. K. *see* **Goyal, A. N., 94j:44003**
Gaur, Neelima *see* **Goyal, S. P., 94f:44002**
Goyal, A. N. (*with* Chaturvedi, V. K.) Abelian theorems on generalized transcendental functions and distributional transforms. **94j:44003**
Goyal, S. P. (*with* Gaur, Neelima) On the inverse Laplace transform of certain functions involving one and more variables. (English summary) **94f:44002**
Kalla, Shyam L. *see* **Arrieta de Uzcátegui, Xiomara, 94j:44002**
Kolyshkin, A. A. *see* **Antimirov, Maximilian Ya.; et al., 94g:44002**
Laziun, V. *see* **Neamţu, D.; et al., 94a:44001**
Mattner, Lutz Bernstein's theorem, inversion formula of Post and Widder, and the uniqueness theorem for Laplace transforms. (English summary) **94b:44001**
Neamţu, D. (*with* Neamţu, N. N.; Laziun, V.) About Borel's theorem in Laplace-Dirichlet transform. (Romanian summary) **94a:44001**
Neamţu, N. N. On the discrete bidimensional Carson-Laplace transform. (English summary) (*see* **94j:00025**)
— *see also* **Neamţu, D.; et al., 94a:44001**
Raina, R. K. *see* **Srivastava, Hari M.; et al., 94d:44002**
Rao, G. L. N. Generalised Laplace transforms of distributions. (English summary) **94k:44001**
Saigo, Megumi *see* **Srivastava, Hari M.; et al., 94d:44002**
Srivastava, Hari M. (*with* Saigo, Megumi; Raina, R. K.) Some existence and connection theorems associated with the Laplace transform and a certain class of integral operators. (English summary) **94d:44002**
Stadtmüller, Ulrich Tauberian theorems for weighted Laplace transforms. (English summary) **94i:44001**
Vaillancourt, Rémi *see* **Antimirov, Maximilian Ya.; et al., 94g:44002**

Items with secondary classifications in 44A10

Baier, A. (*with* Glaeske, H.-J.) The Laplace transformation on certain spaces of generalized functions. (English summary) **94h:46064**
Chen, Bang-Yen (*with* Verstraelen, Leopold) Differential geometry of Laplace transformations. (English summary) **94c:53072**
Dong, Chen Wei A regularization method for the numerical inverse of the Laplace transform. (English summary) **94e:65141**
El Tawil, Magdy A. Random Laplace transform. (English summary)
Fitzsimmons, Sean Obtaining magnetic monopole solutions by use of the Laplace transform. (English summary) **94e:81181**
Glaeske, H.-J. *see* **Baier, A., 94h:46064**
Hersh, M. A. The zeros and poles of delta operator systems. (English summary) **94d:93087**
Kalla, Shyam L. (*with* Villalobos, Alfredo) Laplace and Mellin transforms in number theory. (Spanish. Spanish summary) **94j:11077**
Kantorovitz, Shmuel *see* **deLaubenfels, Ralph, 94g:47015**
Karunakaran, V. (*with* Vijayan, A.) Laplace transforms of generalized functions. **94i:46056**
Kondracki, Witold (*with* Kozak, Michal) An analogue of the Minlos theorem in the case of the full Laplace transform of a measure. (English summary) **94a:46052**
Kozak, Michal *see* **Kondracki, Witold, 94a:46052**
Krabbe, Gregers The initial value problem for singular systems of differential equations. **94m:34021**
deLaubenfels, Ralph Unbounded well-bounded operators, strongly continuous semigroups and the Laplace transform. (English summary) **94h:47062**
— (*with* Kantorovitz, Shmuel) Laplace and Laplace-Stieltjes space. (English summary) **94g:47015**
Miller, John Boris Generalized functions for the Laplace transform and universal approximants. (English summary) **94h:46065**
Musin, I. Kh. On the Laplace transform of a class of generalized functions of slow growth. (Russian. English and Russian summaries) **94j:46045**
Nishimoto, Katsuyuki (*with* Saxena, Ram Kishore) An application of Riemann-Liouville operator in the unification of certain functional relations. (English summary) **94c:33021**
Rodriguez, Giuseppe (*with* Seatzu, Sebastiano) On the numerical inversion of the Laplace transform with boundary constraints. (English summary) **94h:65128**
Ryabov, V. M. Quadrature formulas of highest degree of precision for inversion of the Laplace transformation. **94c:65160**
Safaryan, R. G. Two theorems on the closure of the set of Laplace-type transforms. (Russian. Russian and Ukrainian summaries) **94m:60007**
Saxena, Ram Kishore *see* **Nishimoto, Katsuyuki, 94c:33021**
Seatzu, Sebastiano *see* **Rodriguez, Giuseppe, 94h:65128**
Verstraelen, Leopold *see* **Chen, Bang-Yen, 94c:53072**
Vijayan, A. *see* **Karunakaran, V., 94i:46056**
Villalobos, Alfredo *see* **Kalla, Shyam L., 94j:11077**

44A12 Radon transform [see also 92C55]

Boman, Jan An example of nonuniqueness for a generalized Radon transform. **94j:44004**
Bukhgeim, A. L. Ill-posed problems, number theory and tomography. (Russian. Russian summary) **94e:44002**
Casadio Tarabusi, Enrico (*with* Cohen, Joel M.; Picardello, Massimo A.) The horocyclic Radon transform on nonhomogeneous trees. (English summary) **94b:44002**
Cnops, J. Continuity estimates for the Radon transform. (English summary) **94k:44002**
Cohen, Joel M. *see* **Casadio Tarabusi, Enrico; et al., 94b:44002**
Helgason, Sigurdur Support theorems in integral geometry and their applications. **94f:44003**
Khakhlyutin, V. P. The problem of small-aspect flaw detection. (Russian. Russian summary) (*see* **94e:00015**)
Kölzow, Dietrich (*with* Singer, Peter) Zur Hlawka-Radon-Transformation. [On the Hlawka-Radon transform] **94j:44005**
Kurusa, Árpád New unified Radon inversion formulas. **94f:44004**
— Support curves of invertible Radon transforms. **94m:44001**
Mikusiński, Piotr (*with* Zayed, Ahmed I.) The Radon transform of Boehmians. **94e:44003**
(Müller, Claus) *see* **Natterer, Frank**
Natterer, Frank Mathematische Methoden der Computer-Tomographie. [Mathematical methods in computer tomography]
Petrov, E. E. Moment conditions for the k-dimensional Radon transformation. (Russian) **94e:44004**
Picardello, Massimo A. *see* **Casadio Tarabusi, Enrico; et al., 94b:44002**
Quinto, Eric Todd Singularities of the X-ray transform and limited data tomography in $\mathbf{R}^2$ and $\mathbf{R}^3$. (English summary) **94i:44002**
Ramm, Alexander G. (*with* Zaslavsky, Alexander I.) Reconstructing singularities of a function from its Radon transform. (English summary) **94j:44006**
Sekerin, A. B. A theorem on a support for the Radon transform in a complex space. (Russian) **94k:44003**
Singer, Peter *see* **Kölzow, Dietrich, 94j:44005**
(Staufenbiel, Rolf) *see* **Natterer, Frank**
Trimèche, Khélifa The Radon transform and its dual associated with partial differential operators and applications to polynomials on the unit disk. (English summary) **94m:44002**
Zaslavsky, Alexander I. *see* **Ramm, Alexander G., 94j:44006**
Zayed, Ahmed I. *see* **Mikusiński, Piotr, 94e:44003**

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Abouelaz, Ahmed (*with* Daher, Radouan) Sur la transformation de Radon de la sphère S^d. (English and French summaries) [On the Radon transform of the sphere S^d] **94g:22015**
Berenstein, Carlos A. (*with* Casadio Tarabusi, Enrico) Range of the k-dimensional Radon transform in real hyperbolic spaces. (English summary) **94k:53087**
Bui Doan, Khanh A numerical method for the tomographic reconstruction. (English summary)
Casadio Tarabusi, Enrico *see* **Berenstein, Carlos A., 94k:53087**
Clack, R. (*with* Defrise, Michel) Cone-beam reconstruction by the use of Radon transform intermediate functions. (English summary) **94m:78009**
Cohen, Joel M. (*with* Colonna, Flavia) The functional analysis of the X-ray transform on trees. (English summary) **94a:05048**
Colonna, Flavia *see* **Cohen, Joel M., 94a:05048**
Daher, Radouan *see* **Abouelaz, Ahmed, 94g:22015**
Defrise, Michel *see* **Clack, R., 94m:78009**
Felix, Rainer Radon-Transformation auf nilpotenten Lie-Gruppen. [Radon transform on nilpotent Lie groups] **94f:22012**
Greenleaf, Allan (*with* Uhlmann, Gunther) Microlocal analysis of the two-plane transform. **94c:58205**
Grinberg, Eric L. Aspects of flat Radon transforms. (English summary) **94a:53104**
Heyman, Ehud *see* **Steinberg, B. Z., 94b:78015**
Kakehi, Tomoyuki Range characterization of Radon transforms on S^n and $P^n\mathbf{R}$. **94g:58221**
Ma, Ling *see* **Wei, Guang Zu, 94j:45008**
Natterer, Frank Determination of tissue attenuation in emission tomography of optically dense media. (English summary)
Ramm, Alexander G. (*with* Zaslavsky, Alexander I.) Asymptotic behavior of the Fourier transform of piecewise-smooth functions. (English and French summaries) **94d:42019**

Roerdink, J. B. T. M. Computerized tomography and its applications: a guided tour. (English summary) **94b:92009**
Rogers, Allen D. A functional from geometry with applications to discrepancy estimates and the Radon transform. **94c:11068**
Shvab, A. A. A problem of computer tomography, based on the method of holographic interferometry, in flaw detection in elastic bodies. (Russian. Russian summary) (*see* **94e:00015**)
Steinberg, B. Z. (*with* Heyman, Ehud) The local Radon transform and variable scale resolution with application to time-dependent wave radiation. (English summary) **94b:78015**
Sumitomo, Takeshi (*with* Tandai, Kwoichi) Invariant differential operators on the Grassmann manifold $G_{2,n-1}(\mathbf{C})$. **94c:58228**
Tandai, Kwoichi *see* **Sumitomo, Takeshi, 94c:58228**
Thompson, Alan A. Sobolev estimates for singular Radon transforms. (English summary) **94g:58224**
Uhlmann, Gunther *see* **Greenleaf, Allan, 94c:58205**
Wei, Guang Zu (*with* Ma, Ling) A stable numerical method for the CHD inversion of the Radon transform. (Chinese. English and Chinese summaries) **94j:45008**
Zaslavsky, Alexander I. *see* **Ramm, Alexander G., 94d:42019**

44A15 Special transforms (Legendre, Hilbert, etc.)

Addis, David F. *see* **Oberle, Michael K.; et al., 94b:44003**
Agrawal, N. K. On Whittaker transform of generalized functions. (English and Italian summaries) **94j:44007**
— *see also* **Mahato, Anil Kumar, 94f:44007**
Betancor, Jorge J. Abelian theorems for a generalized Hankel transformation. (English summary) **94d:44003**
Castro Chadid, Iván (*with* Molina Focazzio, Fabio; Umaña Hernández, Yolima; Villalba Aldaña, Dionicio; Duque Hoyos, Álvaro) Mathematical foundations of the discrete Hartley transform. (Spanish. English and Spanish summaries) **94k:44004**
Chaudhari, M. S. *see* **John, J. K., 94f:44005**
Crăciunaș, P. T. *see* **Mangeron, D. I.; et al., 94j:44009**
Delgado, E. (*with* Rodríguez, J.) A generalization of the Meijer integral transforms. (Spanish. English and Spanish summaries) **94j:44008**
Duque Hoyos, Álvaro *see* **Castro Chadid, Iván; et al., 94k:44004**
Friedman, Eduardo (*with* Skoruppa, Nils-Peter) Lower bounds for the L^p-norm in terms of the Mellin transform. (English summary) **94h:44001**
Gilbert, George T. *see* **Oberle, Michael K.; et al., 94b:44003**
González Rodríguez, José Manuel *see* **Nishimoto, Katsuyuki, 94k:44005**
Hatcher, Rhonda L. *see* **Oberle, Michael K.; et al., 94b:44003**
John, J. K. (*with* Chaudhari, M. S.) Weber integral transformation of arbitrary order. (English summary) **94f:44005**
Kochneff, Elizabeth (*with* Sagher, Yoram; Tan, Ruby) On a theorem of Akhiezer. **94i:44003**
Lenyuk, M. P. *see* **Mangeron, D. I.; et al., 94j:44009**
Mahato, Anil Kumar On a distributional Meijer-Bessel transform. (English summary) **94f:44006**
— (*with* Agrawal, N. K.) The n-dimensional distributional Gauss-hypergeometric transformation. (English summary) **94f:44007**
Mamedov, R. G. ★ Преобразование Меллина и теория приближения. (Russian. Russian summary) [The Mellin transform and approximation theory] **94g:44003**
Mangeron, D. I. (*with* Lenyuk, M. P.; Crăciunaș, P. T.) Differential systems that generate classes of functions and their applications. IV. Hybrid Fourier-Weber integral transforms on a straight line and their applications to problems of mathematical physics. (Russian. French summary) **94j:44009**
McBride, Adam C. The range and invertibility of a class of Mellin multiplier transforms. (English summary) **94c:44001**
Molina Focazzio, Fabio *see* **Castro Chadid, Iván; et al., 94k:44004**
More, S. V. Mellin transform of Hankel transform of distribution of compact support. **94g:44004**
Negrín, E. R. The Lambert transform on ε'. I. (English summary) **94i:44004**
Nishimoto, Katsuyuki (*with* González Rodríguez, José Manuel) A Watson type integral transformation of test functions of exponential growth and negative type. (English summary) **94k:44005**
Oberle, Michael K. (*with* Scott, Steven L.; Gilbert, George T.; Hatcher, Rhonda L.; Addis, David F.) Mellin transforms of a generalization of Legendre polynomials. (English summary) **94b:44003**
Okada, Susumu The Poincaré-Bertrand formula for the Hilbert transform. (English summary) **94b:44004**
Poonam (*with* Sethi, P. L.) Generalization of Lowndes operators. (Hindi. English and Hindi summaries) **94i:44005**
Rodríguez, J. *see* **Delgado, E., 94j:44008**
Sagher, Yoram *see* **Kochneff, Elizabeth; et al., 94i:44003**
Sasiela, Richard J. (*with* Shelton, John D.) Mellin transform methods applied to integral evaluation: Taylor series and asymptotic approximations. (English summary) **94k:44006**
Scott, Steven L. *see* **Oberle, Michael K.; et al., 94b:44003**
Sethi, P. L. *see* **Poonam, 94i:44005**
Shawagfeh, N. T. The Laplace transforms of products of Airy functions. (English and Arabic summaries) **94d:44004**
Shelton, John D. *see* **Sasiela, Richard J., 94k:44006**
Skoruppa, Nils-Peter *see* **Friedman, Eduardo, 94h:44001**
Tan, Ruby *see* **Kochneff, Elizabeth; et al., 94i:44003**
Tkebuchava, G. E. On conjugate functions and Hilbert transformations of several variables. (Russian. English and Georgian summaries)
Umaña Hernández, Yolima *see* **Castro Chadid, Iván; et al., 94k:44004**
Villalba Aldaña, Dionicio *see* **Castro Chadid, Iván; et al., 94k:44004**

Items with secondary classifications in 44A15

Agnesi, A. (*with* Reali, G. C.; Patrini, G.; Tomaselli, A.) Numerical evaluation of the Hankel transform: remarks. (English summary) **94h:65137**
Ali, Syed Ahmad The extended Schwartz's Hankel transformation for generalised functions. **94g:46044**
Antimirov, Maximilian Ya. (*with* Kolyshkin, A. A.; Vaillancourt, Rémi) ★ Applied integral transforms. **94g:44002**
Arrieta de Uzcátegui, Xiomara (*with* Kalla, Shyam L.) Some results on the fractional diffusion equation. (Spanish. English and Spanish summaries) **94j:44002**
Barrios, Javier A. (*with* Betancor, Jorge J.) On asymptotic expansions of Krätzel's integral transforms. (English summary) **94a:41051**
Betancor, Jorge J. *see* **Barrios, Javier A., 94a:41051**
Budaev, B. V. Radiation of elastic waves by a dynamically loaded wedge. (Russian) **94h:73031**
Chui, Charles K. (*with* Li, Xin^3) Generalized wavelet decompositions of bivariate functions. (English summary) **94g:42051**
De Carli, Laura L^p estimates for the Cauchy transforms of distributions with respect to convex cones. (English summary) **94f:46052**
Dorta Díaz, J. A. (*with* Méndez Pérez, J. M. R.) Finite Hankel-Clifford transformations of the first kind of arbitrary order. (English summary) **94h:33002**
Dunkl, Charles F. Hankel transforms associated to finite reflection groups. **94g:33011**
El Harchaoui, Mimoun Inversion de la transformation de Pompeiu dans le disque hyperbolique (cas de deux disques). (English summary) [Inversion of the Pompeiu transform in the hyperbolic disk (the case of two disks)] **94m:43019**
Galué, Leda (*with* Kalla, Shyam L.; Srivastava, Hari M.) Further results on an H-function generalized fractional calculus. (English summary) **94j:26012**
Gilliam, David S. (*with* Hall, Peter Gavin; Ruymgaart, Frits H.) Rate of convergence of the empirical Radon transform. (English summary) **94c:62063**
Hall, Peter Gavin *see* **Gilliam, David S.; et al., 94c:62063**
Hillion, Pierre Huyghens-Riemann representation of the inhomogeneous waves. (English summary) **94g:35133**
Hu, Yue A weighted norm inequality for oscillatory singular integrals. **94g:42009**
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44A20 Transforms of special functions

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Gaur, Neelima A unified multiple fractional integral formula. (English summary) **94b:44005**
González Rodríguez, Benito *see* **Hayek Calil, Nácere, 94g:44005; 94j:44010** *and* **94k:44007**
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McBride, Adam C. The range and invertibility of a class of Mellin multiplier transforms. (English summary) **94c:44001**
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44A35 Convolution

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44A99 Miscellaneous topics

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45–XX Integral equations

45–02 Research exposition (monographs, survey articles)

Bantaş, Gh. (*with* Corduneanu, C.) Systèmes gouvernés par des équations intégrales Volterra. (English summary) [Systems governed by Volterra integral equations] **94g:45001**
Buschman, R. G. *see* **Srivastava, Hari M., 94a:45002**
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45–03 Historical (must also be assigned at least one classification number from Section 01)

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(Gabeskiria, Ts.) *see* **Vekua, I.**
(Muskhelishvili, N. I.) *see* **Vekua, I.**
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Items listed otherwise than by author

Anniversary:
Birth of Muskhelishvili, N. *see* **Vekua, I.**
Bibliography:
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45–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 45–06

(Dolov, M. V.) *see* **Differential and integral equations, 94e:34002**
(Ivlev, D. D.) *see* **Investigations in boundary value problems and their applications, 94i:00010**
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45A05 Linear integral equations

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45B05 Fredholm integral equations

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45C05 Eigenvalue problems [see also 34Lxx, 35Pxx, 45P05, 47A75]

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45D05 Volterra integral equations [see also 34A12]

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— *see also* **Ghorayeb, El-Sayed A. M., 94e:45002**

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Januszewski, Janusz On Volterra integral equations with weakly singular kernels in Banach spaces. **94g:45003**

Karakostas, George (*with* Stavroulakis, I. P.; Wu, Yumei) Oscillations of Volterra integral equations with delay. (English summary) **94h:45001**

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Pulyaev, V. F. (*with* Tsalyuk, Z. B.) On the asymptotic behavior of solutions of Volterra integral equations in Banach spaces. (Russian) **94a:45005**

Reich, Simeon *see* **Aizicovici, Sergiu; et al., 94f:45002**

Roberts, Catherine A. (*with* Lasseigne, D. Glenn; Olmstead, W. E.) Volterra equations which model explosion in a diffusive medium. (English summary) **94k:45005**

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Tsuchiya, Masaaki A Volterra type integral equation related to the boundary value problem for diffusion equations. **94i:45006**

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Wu, Yumei Oscillation of Volterra integral equations and forced functional-differential equations. **94e:45003**

— *see also* **Karakostas, George; et al., 94h:45001**

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— (*with* Papageorgiou, Nikolaos S.) Multivalued Volterra integral equations in Banach spaces. **94i:45017**

— An abstract doubly nonlinear Volterra integral equation. **94k:45021**

Argyros, Ioannis K. On a class of quadratic integral equations with perturbation. (English summary) **94a:45011**

Asanov, A. A. *see* **Imanaliev, M. I., 94a:65069**

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Bantaş, Gh. (*with* Corduneanu, C.) Systèmes gouvernés par des équations intégrales Volterra. (English summary) [Systems governed by Volterra integral equations] **94g:45001**

Baron, Karol (*with* Lasota, Andrzej) Asymptotic properties of Markov operators defined by Volterra type integrals. (English summary) **94h:47053**

Bulgakov, A. I. (*with* Lyapin, L. N.) Inclusions of Volterra-Hammerstein type with a nonconvex right-hand side. (Russian) **94j:47096**

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Edmunds, David E. (*with* Stepanov, V. D.) The measure of noncompactness and approximation numbers of certain Volterra integral operators. **94j:47075**

Engel, Klaus-Jochen On the diagonalization of certain operator matrices related to Volterra equations. **94f:47094**

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Han, Guo Qiang Asymptotic error expansion for the Nystrom method of nonlinear Volterra integral equation of the second kind. (English summary) **94m:65202**

Imanaliev, M. I. (*with* Asanov, A. A.) Regularization and uniqueness of solutions of systems of Volterra nonlinear integral equations of the first kind with two arguments. (English summary) **94a:65069**

Khristova, S. G. (*with* Baĭnov, Drumi Dimitrov) Application of the monotone-iterative techniques of V. Lakshmikantham to the solution of the initial value problem for impulsive integro-differential equations of Volterra type. (English summary) **94c:45006**

Kośka, Marian Optimization problems with differential-integral constraints of Volterra and Fredholm types. (English and Polish summaries) **94h:49042**

Lasota, Andrzej *see* **Baron, Karol, 94h:47053**

Li, Yizeng Abstract Volterra equation with initial point data. **94j:45009**

Lyapin, L. N. *see* **Bulgakov, A. I., 94j:47096**

Magnitskiĭ, N. A. ★ Асимптотические методы анализа нестационарных управляемых систем. (Russian. English and Russian summaries) [Asymptotic methods for analyzing time-dependent control systems] **94j:93004**

Matin, Md. Abdul (*with* Mustafa, Md.) A study of periodicity of nonlinear integral equations. (English summary) **94d:45011**

Michalski, Marek W. Derivatives of noninteger order and their applications. **94k:26011**

Morchało, Jarosław Properties of solutions of some linear class of integrodifferential equations of Volterra type. (English summary) **94a:45017**

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Nurzhanov, O. D. (*with* Abdirashitova, Z. S.) Solution of a nonlinear boundary value problem for integro-differential equations of Volterra type. (Russian. Russian summary) **94c:34099**

Papageorgiou, Nikolaos S. *see* **Aizicovici, Sergiu, 94i:45017**

Pereverzev, S. V. (*with* Urumbaev, A. N.) Optimal direct methods for solving Volterra equations in a Hilbert space. (Russian) **94f:65064**

Schmeiser, Christian (*with* Unterreiter, Andreas) The transient behaviour of multidimensional pn-diodes in low injection. (English summary) **94a:82055**

Sinenko, M. A. An estimate for the rate of convergence of E. Schock's method on a class of Volterra equations with differentiable kernels. (Russian. Russian summary) **94b:65079**

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Unterreiter, Andreas *see* **Schmeiser, Christian, 94a:82055**

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Wong, Fu Hsiang (*with* Yeh, Cheh Chih) Comparison and oscillation theorems for nonlinear Volterra-Stieltjes integro-differential equations. (English summary) **94b:45002**

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45Exx Singular integral equations [see also 30E20, 30E25, 44A15, 44A35]

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Muskhelishvili, N. I. ★ Singular integral equations. (English summary) **94a:45001**

(Radok, J. R. M.) *see* **Muskhelishvili, N. I., 94a:45001**

45E05 Integral equations with kernels of Cauchy type [see also 35J15]

Berthold, Dietmar (*with* Junghanns, Peter) New error bounds for the quadrature method for the solution of Cauchy singular integral equations. (English summary) **94i:45008**

Bitsadze, A. V. Function-theoretic methods for singular integral equations. **94f:45005**

Junghanns, Peter *see* **Berthold, Dietmar, 94i:45008**

Kim, E. I. Solution of a class of singular integral equations. II. (Russian. English, Russian and Kazakh summaries) **94j:45002**

Lu, Jian Ke (*with* Shen, Yong Xiang) Singular integral equations with Cauchy and convolution kernels in the class $\{\alpha, \beta\}$. (Chinese. Chinese summary) **94a:45007**

Martin, Paul Andrew Addendum: "Exact solution of a simple hypersingular integral equation" [J. Integral Equations Appl. **4** (1992), no. 2, 197–204; MR 93c:45005].

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Yin, Cheng Yuan Solutions to a class of singular integral equations on a complex hypersphere in $\mathbb{C}^n$. (Chinese. Chinese summary) **94f:45006**

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Braunss, H.-A. *see* **Schachtzabel, H.; et al., 94j:78006**

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Fel'dman, I. A. (*with* Gohberg, Israel; Krupnik, N. Ya.) A method of explicit factorization of matrix functions and applications. (English summary) **94m:47036**

Finck, T. (*with* Roch, Steffen; Silbermann, Bernd) Two projection theorems and symbol calculus for operators with massive local spectra. (English summary) **94h:47083**

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Kravchenko, V. G. (*with* Litvinchuk, G. S.) On the C^*-algebra of singular integral operators with Carleman shift on a nonclosed arc. (English summary) **94k:47076**
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Laila, Muksen *see* **Nyaga, V. I., 94b:47064**
Latsabidze, T. I. *see* **Duduchava, R. V.; et al., 94j:47074**
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Venturino, Ezio Stability and convergence of a hyperbolic tangent method for singular integral equations. (English summary) **94k:45019**
Wang, Chuan Rong Algebras of singular integral operators with doubly periodic kernels. (Chinese. Chinese summary) **94c:47073**
Zanguridze, D. V. A remark on the approximation of singular integrals with Jacobi weight functions. (Russian. Russian summary) (*see* **94h:00014**)
Zhura, N. A. A nonlocal boundary value problem in the two-dimensional stationary theory of elasticity. (Russian. Russian summary) **94i:73019**
Zweifel, Paul F. *see* **Rondoni, Lamberto; et al., 94a:65072**

45E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [see also 47B35]

Böttcher, Albrecht (*with* Spitkovsky, Ilya M.) Wiener-Hopf integral operators with PC symbols on spaces with Muckenhoupt weight. (English summary) **94e:45004**
Dặng Đình Áng (*with* Gorenflo, Rudolf) On nondegenerate and degenerate nonlinear Abel integral equations of the first kind. **94j:45003**
Dgani, R. *see* **Knill, Oliver; et al., 94e:45005**
Dzhangibekov, G. On a class of two-dimensional singular integral operators and its applications to boundary value problems for elliptic systems of equations in the plane. (Russian) **94i:45009**
Elschner, Johannes On the double layer potential operator over polyhedral domains: solvability in weighted Sobolev spaces and spline approximation. **94k:45006**
Gorenflo, Rudolf *see* **Dặng Đình Áng, 94j:45003**
Huang, Xiang Ding A projection method for solving Chandrasekhar's H-equation. (Chinese. Chinese summary) **94a:45008**
Knill, Oliver (*with* Dgani, R.; Vogel, M.) A new approach to Abel's integral operator and its application to stellar winds. (English summary) **94e:45005**
Nair, V. C. (*with* Vasudevan Nambisan, T. M.) Inversion of an integral equation with the H-function of two variables as its kernel. (Hindi. English and Hindi summaries)
Petrov, V. È. Explicit solutions of the equation of a carrying line. (Russian) (*see* **94e:34002**)
Rangi, Albert Sur une équation de convolution. [On a convolution equation]
Rondoni, Lamberto (*with* Zweifel, Paul F.) Solutions of singular integral equations from gas dynamics and plasma physics. (English summary) **94d:45003**
Shilin, A. P. Integral equations with kernels that are close to sum and difference kernels. (Russian. English and Russian summaries) **94f:45007**
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Tarasov, R. P. Numerical inversion of causal Wiener-Hopf operators and the method of digital filters in inverse heat conduction problems. (Russian. Russian summary) **94k:45007**
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Yin, Cheng Yuan A class of Riemann boundary value problems on complex hyperspheres and their application. (Chinese. English and Chinese summaries) **94k:45008**
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Gilding, B. H. A singular nonlinear Volterra integral equation. (English summary) **94m:45001**
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Jarczyk, Witold Convexity properties of nonnegative solutions of a convolution equation. **94k:39046**
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Kuijper, A. B. (*with* Spitkovsky, Ilya M.) On convolution equations with semi-almost periodic symbols on a finite interval. (English summary) **94c:47041**
Lã, De A remark on the solution for a certain nonlinear two-dimensional singular integral equation. (English and Chinese summaries) **94k:30101**
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Merlin, A. V. (*with* Merlina, N. I.) A quadrature formula for calculating a singular integral. (Russian. Russian summary) (*see* **94i:00010**)
Merlina, N. I. *see* **Merlin, A. V., (94i:00010)**
Plaksa, S. A. Iterated integrals over a rectifiable curve. (Russian. Russian summary) **94e:30015**
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Reddy, Satish C. Pseudospectra of Wiener-Hopf integral operators and constant-coefficient differential operators. (English summary) **94m:47057**
Reissinger, Jörg A Dirichlet problem for convolution operators in bounded regions. (English summary) **94e:47037**
Salekhov, L. G. On a problem in a convolution algebra. (Russian. Russian summary) **94m:46073**
Sandri, Guido v. H. *see* **Hohlfeld, R. G.; et al., 94e:45001**
Sengupta, Ashok A note on a reduction of Cauchy singular integral equation to Fredholm equation in L_p. (English summary) **94f:47058**
Shirokova, E. A. On a mixed problem in a half-strip for an elliptic-type equation. (Russian) **94i:35054**
Spitkovsky, Ilya M. *see* **Kuijper, A. B., 94c:47041**
Srivastava, Hari M. (*with* Buschman, R. G.) ★ Theory and applications of convolution integral equations. (English summary) **94a:45002**
Strel'nikova, E. A. On the equivalence of singular integral equations in finite-span wing theory. (Russian. English and Ukrainian summaries) **94a:76005**
Strezhneva, E. V. *see* **Zhegalov, V. I., (94i:00010)**
Ugowski, Henryk Existence conditions for convolution inverses of real finite sequences. (English summary) **94j:94004**
Wang, Chuan Ru A solvability theorem for generalized Hammerstein nonlinear singular integral equations. (Chinese. English and Chinese summaries) **94f:47098**
Wegert, Elias ★ Nonlinear boundary value problems for holomorphic functions and singular integral equations. (English and German summaries) **94b:30049**
Wen, Guo Chun *see* **Gilbert, Robert P., 94h:35134**
Zhegalov, V. I. (*with* Strezhneva, E. V.) On the Riemann problem with an inverse Carleman shift. (Russian. Russian summary) (*see* **94i:00010**)

45E99 None of the above, but in this section

Li, Lun Huan Singular integral equations with nondegenerate Weil polyhedron kernels. (Chinese. English and Chinese summaries) **94a:45009**
Moshinskii, A. I. Some singular integral equations that can be solved by means of integral transformations with respect to spherical functions. (Russian. Russian summary) **94a:45010**

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Bogatyrev, A. B. On spectra of pairs of Poincaré-Steklov operators. (English summary) **94m:35214**
Didenko, V. D. (*with* Silbermann, Bernd) On the stability of some operator sequences and the approximate solution of singular integral equations with conjugation. (English summary) **94c:65164**
Haidar, Nassar H. S. On the transport operator with a linearized kernel. (English summary) **94h:82054**
Kappel, Franz (*with* Turi, Janos) Singular integro-differential equations and product spaces. (English summary) **94f:45012**
Silbermann, Bernd *see* **Didenko, V. D., 94c:65164**
Turi, Janos *see* **Kappel, Franz, 94f:45012**

45Fxx Systems of linear integral equations

45F05 Systems of nonsingular linear integral equations

Kalynyak, I. V. (*with* Khai, M. V.) Harmonic polynomials and their application in the solution of problems in the mathematical theory of cracks. (Russian. Russian summary) **94c:45004**
Khai, M. V. *see* **Kalynyak, I. V., 94c:45004**

45F15 Systems of singular linear integral equations

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Airapetyan, G. M. Well-posed boundary value problems for non-regularly elliptic equations in the class L^1. (Russian. English, Russian and Armenian summaries) **94f:35042**

45F99 None of the above, but in this section

Items with secondary classifications in 45F99

Manova, N. V. Abelian spaces. (Russian) **94a:47085**
Pandolfi, Luciano An integral equation approach to the singular values of a system with distributed output delays. (English summary) **94d:93025**

45Gxx Nonlinear integral equations [see also 47H15]

45G05 Singular nonlinear integral equations

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Appell, Jürgen (*with* Carbone, Antonio; De Pascale, Espedito; Zabreiko, P. P.) A note on the existence and uniqueness of Hölder solutions of nonlinear singular integral equations. (English summary) **94m:47111**

— (*with* Väth, M.) Weakly singular Hammerstein-Volterra operators in Orlicz and Hölder spaces. (English summary) **94k:47099**

Carbone, Antonio *see* **Appell, Jürgen; et al., 94m:47111**

De Pascale, Espedito *see* **Appell, Jürgen; et al., 94m:47111**

Nguen T'en Nam The spectrum of nonlinear integral equations and widths of functional classes. (Russian. Russian summary) **94i:41034**

Väth, M. *see* **Appell, Jürgen, 94k:47099**

Wegert, Elias Iterative methods for discrete nonlinear Riemann-Hilbert problems. (English summary) **94h:30053**

Zabreiko, P. P. *see* **Appell, Jürgen; et al., 94m:47111**

45G10 Other nonlinear integral equations

Argyros, Ioannis K. On a class of quadratic integral equations with perturbation. (English summary) **94a:45011**

Balachandran, Krishnan (*with* Ilamaran, S.) On nonlinear integral equations with deviating arguments. (English summary) **94a:45012**

Cañada, A. (*with* Zertiti, A.) Method of upper and lower solutions for nonlinear delay integral equations modelling epidemics and population growth. (English summary) **94k:45010**

Galué, Leda (*with* Kiryakova, V. S.; Kalla, Shyam L.) Solution of dual integral equations by fractional calculus. (English summary) **94f:45008**

Guenther, R. B. (*with* Lee, John Walter) Some existence results for nonlinear integral equations via topological transversality. (English summary) **94f:45009**

Han, Zhi Qing Solvability of Hammerstein integral equations. (Chinese. English and Chinese summaries) **94a:45013**

Ilamaran, S. *see* **Balachandran, Krishnan, 94a:45012**

Kalla, Shyam L. *see* **Galué, Leda; et al., 94f:45008**

Kiryakova, V. S. *see* **Galué, Leda; et al., 94f:45008**

Lee, John Walter *see* **Guenther, R. B., 94f:45009**

Liang, Fang Hao Positive solutions to Hammerstein nonlinear integral equations with unbounded domains of integration. (Chinese. English and Chinese summaries)

Torrejón, Ricardo Positive almost periodic solutions of a state-dependent delay nonlinear integral equation. **94h:45005**

Zertiti, A. *see* **Cañada, A., 94k:45010**

Items with secondary classifications in 45G10

Alidema, R. I. (*with* Leonov, G. A.; Smirnova, V. B.) On one approach to the problem of the evaluation of stability regions for nonlinear Volterra equations. (English and Serbo-Croatian summaries) **94d:45010**

Bhattacharyya, Saswati *see* **Krishna, S. V., 94k:92008**

Bulgakov, A. I. Integral inclusions with nonconvex images and their applications to boundary value problems for differential inclusions. (Russian. Russian summary) **94b:34025**

Engl, Heinz W. (*with* Hofmann, Bernd; Zeisel, Helmut) A decreasing rearrangement approach for a class of ill-posed nonlinear integral equations. (English summary) **94k:65189**

Ghorayeb, El-Sayed A. M. (*with* Hessein, M. I. M.) On construction of approximate solutions of nonlinear Volterra-Fredholm integral equation in the space L_p ($p \geq 1$). (English summary) **94e:45002**

Guo, Da Jun Positive fixed points and eigenvectors of noncompact decreasing operators with applications to nonlinear integral equations. (English summary) **94k:47086**

Han, Guo Qiang Asymptotic error expansion for the Nystrom method of nonlinear Volterra integral equation of the second kind. (English summary) **94m:65202**

Hessein, M. I. M. Approximate solution of nonlinear integral equations of Volterra type. (English and Arabic summaries) **94m:45002**

— *see also* **Ghorayeb, El-Sayed A. M., 94e:45002**

Hofmann, Bernd *see* **Engl, Heinz W.; et al., 94k:65189**

Januszewski, Janusz L^p-solutions of the Hammerstein integral equation in Banach spaces. (English summary) **94a:47106**

Kelley, C. T. (*with* Sachs, E. W.) Pointwise Broyden methods. (English summary) **94c:65074**

Korotkov, V. B. Reduction of some families of operators to integral form. (Russian. English and Russian summaries) **94h:47094**

Krasnosel'skiĭ, A. M. (*with* Krasnosel'skiĭ, M. A.) On some class of equations with potential operators. (English summary) **94k:47100**

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Mydlarczyk, W. The existence of nontrivial solutions for a class of Volterra equations with smooth kernels. (English summary) **94d:47063**

Okada, Susumu (*with* Ricker, Werner J.) Nonweak compactness of the integration map for vector measures. (English summary) **94d:28014**

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Kangro, U. The smoothness of the solution to a two-dimensional integral equation with logarithmic kernel. (English summary) **94i:45010**

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Gandel', Yu. V. N. I. Akhiezer's theory of dual integral equations and the problem of diffraction of waves by a circular disk. (Russian) **94f:78005**

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Januszewski, Janusz (*with* Szufla, Stanisław) On the Urysohn integral equation in locally convex spaces. (English summary) **94c:47098**

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Szufla, Stanisław *see* **Januszewski, Janusz, 94c:47098**

45J05 Integro-ordinary differential equations

Al-Bassam, M. A. Applications of fractional calculus to a class of integro-differential equations. **94i:45011**

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Bi, Zhi Wei *see* **Hu, Shi Geng, 94a:45015**

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— (*with* Zhuang, Wan) On monotone iterative method for periodic boundary value problems of nonlinear integro-differential equations. **94m:45004**

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Devasahayam, M. Paul Existence of multiple solutions for first order integrodifferential equations. (English summary) (*see* **94e:00020**)

Gopalsamy, K. (*with* He, Xue Zhong; Wen, Li Zhi) Global attractivity and "level-crossings" in a periodic logistic integrodifferential equation. (English summary) **94f:45010**

Gourley, S. A. (*with* Britton, N. F.) On a modified Volterra population equation with diffusion. **94g:45004**

Guo, Da Jun (*with* Liu, Xinzhi) Extremal solutions of nonlinear impulsive integrodifferential equations in Banach spaces. (English summary) **94f:45011**

Hamaya, Yoshihiro Stability property for an integrodifferential equation. (English summary) **94g:45005**

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Khristova, S. G. (*with* Bainov, Drumi Dimitrov) Application of the monotone-iterative techniques of V. Lakshmikantham to the solution of the initial value problem for integro-differential equations. (English summary) **94c:45005**

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45Lxx Approximation of solutions

45L05 Theoretical approximation of solutions

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— (*with* Darbinyan, K. S.) The embedding method for solving nonlinear integral equations. (Russian. Armenian summary)
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45M05 Asymptotics

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45M10 Stability theory

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Wang, Ke[1] The equivalence between g-stability and R^m-stability. (Chinese. English summary)
Zhang, Yi[1] Stability of large scale linear integro-differential systems of Volterra type. (Chinese. English and Chinese summaries) **94a:45021**

Items with secondary classifications in 45M10

Hara, Tadayuki (*with* Miyazaki, Rinko) Equivalent condition for stability of a Volterra integro-differential equation. **94a:45014**
Miyazaki, Rinko *see* **Hara, Tadayuki, 94a:45014**
Wennberg, Bernt Stability and exponential convergence in L^p for the spatially homogeneous Boltzmann equation. **94h:76076**

45M15 Periodic solutions

Islam, Muhammad Nurul On infinite delay integral equations having nonlinear perturbations. (English summary) **94e:45010**
Matin, Md. Abdul (*with* Mustafa, Md.) A study of periodicity of nonlinear integral equations. (English summary) **94d:45011**
Mustafa, Md. *see* **Matin, Md. Abdul, 94d:45011**
Precup, Radu Positive solutions of the initial value problem for an integral equation modeling infectious disease. **94a:45022**

Items with secondary classifications in 45M15

Morchalo, Jarosław Properties of solutions of some linear class of integrodifferential equations of Volterra type. (English summary) **94a:45017**
Philos, Ch. G. Oscillation and nonoscillation in integrodifferential equations. (English summary) **94a:34103**
Wu, Yumei Oscillation of Volterra integral equations and forced functional-differential equations. **94e:45003**

45N05 Abstract integral equations, integral equations in abstract spaces

Aït Dads, E. *see* **Ezzinbi, K., 94i:45018**
Aizicovici, Sergiu (*with* Ding, Yimin) Quasilinear Volterra equations in a Banach space. (English summary) **94a:45023**
— (*with* Papageorgiou, Nikolaos S.) Multivalued Volterra integral equations in Banach spaces. **94i:45017**
— An abstract doubly nonlinear Volterra integral equation. **94k:45021**
Balachandran, Krishnan (*with* Ilamaran, S.) An existence theorem for a functional-integral equation with deviating arguments. (English summary)
Chen, Yu Bo (*with* Zhuang, Wan) Extremal solutions and comparison principle for nonlinear integro-differential equations in a Banach space. (English summary) **94d:45012**
Ding, Yimin *see* **Aizicovici, Sergiu, 94a:45023**
Ezzinbi, K. (*with* Aït Dads, E.) Existence d'une solution presque-périodique d'une équation intégrale à retard dans un espace de Hilbert. (English and French summaries) [Existence of an almost periodic solution of a delay integral equation in a Hilbert space] **94i:45018**
Falaleev, M. V. Generalized solutions of degenerate integro-differential equations in Banach spaces. (Russian) (*see* **94i:65005**)
Guo, Da Jun Impulsive integral equations in Banach spaces and applications. (English summary) **94c:45014**
— Nonlinear impulsive Volterra integral equations in Banach spaces and applications. (English summary) **94c:45015**
Ilamaran, S. *see* **Balachandran, Krishnan**
Li, Yizeng Abstract Volterra equation with initial point data. **94j:45009**
Papageorgiou, Nikolaos S. *see* **Aizicovici, Sergiu, 94i:45017**
Prüss, Jan ★ Evolutionary integral equations and applications. (English summary) **94h:45010**
— Linear evolutionary integral equations on the line. **94k:45022**
Zhuang, Wan *see* **Chen, Yu Bo, 94d:45012**

Items with secondary classifications in 45N05

Bugajewski, Dariusz (*with* Szufla, Stanisław) Existence theorems for differential and integral equations in locally convex spaces. (English summary)
Cañada, A. (*with* Zertiti, A.) Method of upper and lower solutions for nonlinear delay integral equations modelling epidemics and population growth. (English summary) **94k:45010**
Diekmann, Odo (*with* Gyllenberg, Mats; Thieme, Horst R.) Perturbing semigroups by solving Stieltjes renewal equations. (English summary) **94b:47085**
Govindan, T. E. Autonomous semilinear stochastic Volterra integro-differential equations in Hilbert spaces. (English summary) **94m:60131**
Gyllenberg, Mats *see* **Diekmann, Odo; et al., 94b:47085**
Hong, Shi Huang *see* **Hu, Shi Geng, 94a:47101**
Hu, Shi Geng (*with* Hong, Shi Huang) A power series equation in Banach spaces. (Chinese. English and Chinese summaries) **94a:47101**
— γ-Lipschitz moduli and abstract Volterra integral equations. (Chinese. English summary) **94b:47092**
Jiang, Yao Lin *see* **You, Zhao Yong, 94k:45018**
Kamont, Zdzisław Iterative methods for hyperbolic differential-functional problems. (English summary) **94j:35182**
MacCamy, Richard C. Approximation of dissipative hereditary systems. **94j:45007**
Mahdavi, Mehran Nonlinear boundary value problems involving abstract Volterra operators. **94h:34087**
Szufla, Stanisław *see* **Bugajewski, Dariusz**
Thieme, Horst R. *see* **Diekmann, Odo; et al., 94b:47085**
Yamamoto, Yoshitaka Solutions in L^p of abstract parabolic equations in Hilbert spaces. **94g:34101**
Yong, Jiong Min Infinite-dimensional Volterra-Stieltjes evolution equations and related optimal control problems. (English summary) **94b:49042**
You, Zhao Yong (*with* Jiang, Yao Lin) Necessary and sufficient conditions for strong or weak convergence of solutions to nonlinear Volterra integral equations. (Chinese. English and Chinese summaries) **94k:45018**
Zertiti, A. *see* **Cañada, A., 94k:45010**

45P05 Integral operators [see also 47B38, 47G10]

Begmatov, A. Kh. On a class of problems in integral geometry in the plane. (Russian) **94h:45011**
Borovskikh, A. V. *see* **Pokornyĭ, Yu. V., 94c:45016**
Darewych, J. W. *see* **Shapoval, D. V.; et al., 94j:45010**
Efimov, S. V. Bisingular operators with irreducible involutive shift. (Russian) **94a:45024**
Hsiao, George C. On the progeny of Fichera's boundary integral method. (English summary) **94k:45023**
Mkhitaryan, S. M. Spectral relations for integral operators with logarithmic kernels that are encountered in contact and mixed problems in the theory of elasticity. (Russian. Armenian summary)
Moshinskiĭ, A. I. *see* **Yakubovich, S. B., 94m:45007**
Pokornyĭ, Yu. V. (*with* Borovskikh, A. V.) On the Kellogg theorem for discontinuous Green functions. (Russian) **94c:45016**
Rubin, B. S. An analogue of the Marchaud derivative for convolutions with power-logarithm kernels on a finite interval. (Russian) **94k:45024**
Shapoval, D. V. (*with* Simenog, I. V.; Sitenko, A. G.; Darewych, J. W.) The spectrum of integral operators with logarithmically divergent norm. (English summary) **94j:45010**
Simenog, I. V. *see* **Shapoval, D. V.; et al., 94j:45010**
Sitenko, A. G. *see* **Shapoval, D. V.; et al., 94j:45010**
Yakubovich, S. B. (*with* Moshinskiĭ, A. I.) Integral equations and convolutions associated with transformations of Kontorovich-Lebedev type. (Russian. Russian summary) **94m:45007**

Items with secondary classifications in 45P05

Appell, Jürgen (*with* Carbone, Antonio; Zabreiko, P. P.) Kantorovich majorants for nonlinear operators and applications to Uryson integral equations. (English and Italian summaries) **94a:47105**
Böttcher, Albrecht (*with* Spitkovsky, Ilya M.) On a theorem of Rooney concerning the spectrum of the singular integral operator. (English summary) **94b:47093**
Carbone, Antonio *see* **Appell, Jürgen; et al., 94a:47105**
Deundyak, V. M. *see* **Georgiev, K. A., 94m:47101**
Din' Khoang An' Integral operators of Abel type and their relation to a singular operator. (Russian) **94m:47100**
Forrester, P. J. Log-gases, random matrices and the Fisher-Hartwig conjecture. (English summary) **94d:82015**
Gao, Feng The inverse problem for a class of transport equations with integral boundary conditions. (Chinese. English summary) **94a:45019**
Georgiev, K. A. (*with* Deundyak, V. M.) The structure of algebras of singular integral operators in weighted L_p-spaces on the circle. (Russian) **94m:47101**
Govorukhina, A. A. (*with* Kovalenko, N. V.; Paradoksova, I. A.) Two-dimensional integral operators with partial integrals in a half-strip. (Russian) **94m:47102**
Gur'yanova, I. È. On the admissibility of some pairs of spaces for abstract integral operators and equations of Volterra type. (Russian) **94c:47096**
Jung, Michael Classification of the integral neutron transport operator and analysis of its spectral radius. (English summary) **94h:82055**
Kapanadze, R. Singular integral operators on manifolds with a boundary. (English and Georgian summaries) **94k:47074**
Khassan, S. A. M. Multidimensional Wiener-Hopf equations with variable symbols. (Russian. English, Russian and Armenian summaries) **94m:47054**
Korotkov, V. B. Resolvents of integral and partially integral operators. (Russian. English and Russian summaries) **94d:47052**
Kovalenko, N. V. *see* **Govorukhina, A. A.; et al., 94m:47102**
Lanckau, Eberhard ★ Complex integral operators in mathematical physics. (English summary) **94i:35045**
Mynbaev, K. T. On the approximation of integral operators, of their kernels, and of Fredholm integral equations of the second kind in connection with an operator of Sturm-Liouville type. (Russian. Russian summary) **94e:47068**
Novitskiĭ, I. M. Unitary equivalence between linear operators and integral operators with smooth kernels. (Russian. Russian summary) **94b:47042**
Pachpatte, B. G. A note on certain multivariate integral inequalities. (English summary) **94d:26020**
Paradoksova, I. A. *see* **Govorukhina, A. A.; et al., 94m:47102**
Potapov, V. D. Stability of motion of a stochastic viscoelastic system. (Russian. Russian summary) **94f:34156**
Sakhnovich, L. A. Integral equations in the theory of stable processes. (Russian) **94d:60118**
Seifullaev, R. K. Integral operators of potential type and their boundary properties. (Russian. Russian summary) **94m:47104**
Sharafutdinov, V. A. Quasi-isotropic approximation of geometric optics, and tomography problems. (Russian) **94d:58164**
Soldatov, A. P. ★ Краевые задачи теории функций в областях с кусочно-гладкой границей. Часть I, II. (Russian. English, Russian and Georgian summaries) [Boundary value problems of function theory in domains with a piecewise-smooth boundary. Part I, II] **94i:30035**
Spitkovsky, Ilya M. *see* **Böttcher, Albrecht, 94b:47093**
Vasilevskiĭ, N. L. On an algebra generated by abstract singular operators and a shift operator. **94g:47063**
Zabreĭko, P. P. *see* **Appell, Jürgen; et al., 94a:47105**

46–XX Functional analysis {For manifolds modeled on topological linear spaces, see 57N20, 58Bxx.}

46–01 Instructional exposition (textbooks, tutorial papers, etc.)

Ge, Suo Wang ★ Yingyong fanhan fenxi jichu. (Chinese. Chinese summary) [Foundations of applied functional analysis] **94c:46001**
Heuser, Harro ★ Funktionalanalysis. (German) [Functional analysis] **94d:46001**
Khelemskiĭ, A. Ya. ★ Banach and locally convex algebras. **94f:46001**
(Lee, Peng Yee) *see* **Orlicz, Władysław, 94c:46002**
(Li, Wen Qing) *see* **Orlicz, Władysław, 94c:46002**
(Musielak, Julian) *see* **Orlicz, Władysław, 94c:46002**
Orlicz, Władysław ★ Linear functional analysis. **94c:46002**
Ruckle, William H. ★ Modern analysis. **94f:46002**
(Shih, Mou Hsiang) *see* **Wong, Yau-Chuen, 94c:46003**
(West, A.) *see* **Khelemskiĭ, A. Ya., 94f:46001**
Wong, Yau-Chuen ★ Introductory theory of topological vector spaces. **94c:46003**
(Wu, Cong Xin) *see* **Orlicz, Władysław, 94c:46002**

Items with secondary classifications in 46–01

Akhiezer, N. I. ★ Theory of approximation. (English summary) **94b:01041**
— (*with* Glazman, I. M.) ★ Theory of linear operators in Hilbert space. (English summary) **94i:47001**
(Cheng, Min De) *see* **Huang, Cheng Gui, 94g:00002**
Dieudonné, Jean Alexandre ★ Treatise on analysis. Vol. VIII. **94b:00001**
(Fainsilber, Laura) *see* **Dieudonné, Jean Alexandre, 94b:00001**

Ferrier, Jean-Pierre ★ Mathématiques pour la licence. (French. French summary) [Mathematics for the Bachelor's Degree] **94m:00002**
Gelbaum, Bernard R. ★ Problems in real and complex analysis. (English summary) **94d:00003**
Glazman, I. M. *see* **Akhiezer, N. I., 94i:47001**
Gostiaux, Bernard ★ Cours de mathématiques spéciales. Tome 3. (French. French summary) [Course on special mathematics. Vol. 3] **94b:00002c**
Guo, Mao Zheng *see* **Zhang, Gong Qing, 94g:47001**
Herget, Charles J. *see* **Michel, Anthony N., 94g:00003**
Huang, Cheng Gui ★ Liang xiang weijifenxue. (Chinese. Chinese summary) [Two-phase calculus] **94g:00002**
(Hyman, Charles J.) *see* **Akhiezer, N. I., 94b:01041**
Lang, Serge ★ Real and functional analysis. (English summary) **94b:00005**
Li, Bing Ren ★ Introduction to operator algebras. **94b:46083**
Meise, Reinhold (*with* Vogt, Dietmar) ★ Einführung in die Funktionalanalysis. (German) [Introduction to functional analysis] **94f:46003**
Michel, Anthony N. (*with* Herget, Charles J.) ★ Applied algebra and functional analysis. **94g:00003**
(Nestell, Merlynd) *see* **Akhiezer, N. I., 94i:47001**
Renardy, Michael (*with* Rogers, Robert C.) ★ An introduction to partial differential equations. **94c:35001**
Rogers, Robert C. *see* **Renardy, Michael, 94c:35001**
Samuélidès, M. (*with* Touzillier, L.) ★ Problèmes d'analyse fonctionnelle et d'analyse harmonique. (French. French summary) [Problems of functional analysis and harmonic analysis] **94f:00004**
Touzillier, L. *see* **Samuélidès, M., 94f:00004**
Vogt, Dietmar *see* **Meise, Reinhold, 94f:46003**
Zhang, Gong Qing (*with* Guo, Mao Zheng) ★ Fanhan fenxi jiangyi. Xia ce. (Chinese. Chinese summary) [Teaching materials on functional analysis. Part II] **94g:47001**
(Zhang, Jin Wen) *see* **Huang, Cheng Gui, 94g:00002**
Zhu, Ke He ★ An introduction to operator algebras. **94k:46124**

46–02 Research exposition (monographs, survey articles)

(Connes, Alain) *see* **Enock, Michel, 94e:46001**
Cristescu, Romulus (*with* Grigore, Gheorghe; Niculescu, Constantin P.; Păltineanu, Gavril; Popa, Nicolae; Vuza, Dan Tudor) ★ Structuri de ordine în analiza funcţională. Vol. 3. (Romanian) [Order structures in functional analysis. Vol. 3] **94j:46001**
Enock, Michel (*with* Schwartz, Jean-Marie) ★ Kac algebras and duality of locally compact groups. (English summary) **94e:46001**
Grigore, Gheorghe *see* **Cristescu, Romulus; et al., 94j:46001**
Hyman, Daniel M. A theory of discrete analysis. **94k:46001**
— Discrete analysis in commutative rings. **94k:46002**
Meise, Reinhold (*with* Vogt, Dietmar) ★ Einführung in die Funktionalanalysis. (German) [Introduction to functional analysis] **94f:46003**
Niculescu, Constantin P. *see* **Cristescu, Romulus; et al., 94j:46001**
(Ocneanu, Adrian) *see* **Enock, Michel, 94e:46001**
Păltineanu, Gavril *see* **Cristescu, Romulus; et al., 94j:46001**
Popa, Nicolae *see* **Cristescu, Romulus; et al., 94j:46001**
Power, Stephen C. ★ Limit algebras: an introduction to subalgebras of C^*-algebras. (English summary) **94g:46001**
Precupanu, Teodor ★ Spaţii liniare topologice şi elemente de analiză convexă. (Romanian) [Linear topological spaces and fundamentals of convex analysis] **94m:46001**
Schwartz, Jean-Marie *see* **Enock, Michel, 94e:46001**
Vogt, Dietmar *see* **Meise, Reinhold, 94f:46003**
Vuza, Dan Tudor *see* **Cristescu, Romulus; et al., 94j:46001**

Items listed otherwise than by author

Order structures in functional analysis *see* **Cristescu, Romulus; et al., 94j:46001**

Items with secondary classifications in 46–02

Birman, Joan S. On the work of Vaughan F. R. Jones [MR 93b:01035]. (*see* **94d:01001**)
Buskes, G. J. H. M. The Hahn-Banach theorem surveyed. **94h:46007**
Connes, Alain Noncommutative geometry. (English summary) (*see* **94j:00018**)
Defant, Andreas (*with* Floret, Klaus) ★ Tensor norms and operator ideals. **94e:46130**
Floret, Klaus *see* **Defant, Andreas, 94e:46130**
Harmand, P. (*with* Werner, Dirk; Werner, Wend) ★ M-ideals in Banach spaces and Banach algebras. **94k:46022**
Jones, Vaughan F. R. von Neumann algebras in mathematics and physics. **94c:46109b**
— von Neumann algebras in mathematics and physics. **94c:46109a**
— *see also* **Birman, Joan S., (94d:01001)**
Nikol'skiĭ, N. K. (*with* Vasyunin, V. I.) Quasi-orthogonal Hilbert space decompositions and estimates of univalent functions. II. **94i:30017**
Vasyunin, V. I. *see* **Nikol'skiĭ, N. K., 94i:30017**
Werner, Dirk *see* **Harmand, P.; et al., 94k:46022**
Werner, Wend *see* **Harmand, P.; et al., 94k:46022**

46–03 Historical (must also be assigned at least one classification number from Section 01)

Bukhvalov, A. V. (*with* Korotkov, V. B.; Kusraev, A. G.; Kutateladze, S. S.; Makarov, B. M.) ★ Векторные решетки и интегральные операторы. (Russian. Russian summary) [Vector lattices and integral operators] **94b:46001**
Korotkov, V. B. *see* **Bukhvalov, A. V.; et al., 94b:46001**
Kusraev, A. G. *see* **Bukhvalov, A. V.; et al., 94b:46001**
Kutateladze, S. S. *see* **Bukhvalov, A. V.; et al., 94b:46001**
Makarov, B. M. *see* **Bukhvalov, A. V.; et al., 94b:46001**
(Stepanov, V. D.) *see* **Bukhvalov, A. V.; et al., 94b:46001**
Swartz, Charles An addendum to: "The evolution of the uniform boundedness principle" [Math. Chronicle **19** (1990), 1–18; MR 93b:46004]. **94b:46002**
Zalar, Borut The history of the Vidav theorem. (Slovenian. English and Slovenian summaries) **94b:46003**

Items with secondary classifications in 46–03

Neuberger, J. W. Beurling's analyticity theorem. **94d:01040**
Pier, Jean-Paul Aspects de l'évolution de l'analyse mathématique 1900–1950. I–IV. [Aspects of the evolution of mathematical analysis 1900–1950. I–IV] **94k:01022**
(Pincherle, S.) *see* **Struppa, Daniele C., 94g:01014**
Saccoman, John J. Extension theorems and the problem of measure. (Italian summary) **94j:46009**
Struppa, Daniele C. (*with* Turrini, Cristina) Pincherle's contribution to the Italian school of analytic functionals. (English summary) **94g:01014**
Turrini, Cristina *see* **Struppa, Daniele C., 94g:01014**

46–06 Proceedings, conferences, collections, etc.

(Bierstedt, Klaus-D.) *see* **Functional analysis, 94d:46003**
(Herman, Richard H.) *see* **Operator algebras, mathematical physics, and low-dimensional topology, 94h:46001**
(Pathak, R. S.) *see* **Generalized functions and their applications, 94d:46004**
(Pietsch, Albrecht) *see* **Functional analysis, 94d:46003**
(Ruess, Wolfgang M.) *see* **Functional analysis, 94d:46003**
(Samko, S. G.) *see* **Mathematical analysis and its applications, 94i:46001**
(Schmeisser, Hans-Jürgen) *see* **Function spaces, differential operators and nonlinear analysis, 94d:46002**
(Tanbay, Betül) *see* **Operator algebras, mathematical physics, and low-dimensional topology, 94h:46001**
(Triebel, Hans) *see* **Function spaces, differential operators and nonlinear analysis, 94d:46002**
(Vogt, Dietmar) *see* **Functional analysis, 94d:46003**

Items listed otherwise than by author

Conference:
Function Spaces, Differential Operators and Nonlinear Analysis ★ Function spaces, differential operators and nonlinear analysis. **94d:46002**
Functional Analysis ★ Functional analysis. (English summary) **94d:46003**
Essen ★ Functional analysis. (English summary) **94d:46003**
Friedrichroda ★ Function spaces, differential operators and nonlinear analysis. **94d:46002**
Function spaces, differential operators and nonlinear analysis ★ Function spaces, differential operators and nonlinear analysis. **94d:46002**
Functional analysis ★ Functional analysis. (English summary) **94d:46003**
Generalized functions and their applications ★ Generalized functions and their applications. **94d:46004**
Istanbul ★ Operator algebras, mathematical physics, and low-dimensional topology. **94h:46001**
Mathematical analysis and its applications ★ Математический анализ и его приложения. (Russian) [Mathematical analysis and its applications] **94i:46001**
NATO Advanced Research Workshop:
Operator Algebras, Mathematical Physics, and Low-dimensional Topology ★ Operator algebras, mathematical physics, and low-dimensional topology. **94h:46001**
Operator algebras, mathematical physics, and low-dimensional topology ★ Operator algebras, mathematical physics, and low-dimensional topology. **94h:46001**
Research on Hardy spaces related to rings of functions ★ Hardy kūkan no kenkyū—kansū kan to kanren shite. (Japanese) [Research on Hardy spaces related to rings of functions] **94k:46003**
Schriftenreihe des Mathematischen Instituts und des Graduiertenkollegs der Universität Münster. 3. Serie ★ Schriftenreihe des Mathematischen Instituts und des Graduiertenkollegs der Universität Münster. 3. Serie. Heft 8. (German) [Series of the Mathematical Institute and the Graduate Lectures of the University of Münster. 3rd series. Vol. 8] **94a:46001**
Series of the Mathematical Institute and the Graduate Lectures of the University of Münster. 3rd Series ★ Schriftenreihe des Mathematischen Instituts und des Graduiertenkollegs der Universität Münster. 3. Serie. Heft 8. (German) [Series of the Mathematical Institute and the Graduate Lectures of the University of Münster. 3rd series. Vol. 8] **94a:46001**
Symposium:
Generalized Functions and their Applications ★ Generalized functions and their applications. **94d:46004**
Research on Hardy Spaces Related to Rings of Functions ★ Hardy kūkan no kenkyū—kansū kan to kanren shite. (Japanese) [Research on Hardy spaces related to rings of functions] **94k:46003**
Varanasi ★ Generalized functions and their applications. **94d:46004**

Items with secondary classifications in 46–06

(Araki, Huzihiro) *see* **Quantum and non-commutative analysis, 94m:00033**
Cristescu, Romulus (*with* Grigore, Gheorghe; Niculescu, Constantin P.; Păltineanu, Gavril; Popa, Nicolae; Vuza, Dan Tudor) ★ Structuri de ordine în analiza funcţională. Vol. 3. (Romanian) [Order structures in functional analysis. Vol. 3] **94j:46001**
Grigore, Gheorghe *see* **Cristescu, Romulus; et al., 94j:46001**
(Huijsmans, C. B.) *see* **Positive operators and semigroups on Banach lattices, 94c:47002**
(Ito, Keiichi R.) *see* **Quantum and non-commutative analysis, 94m:00033**
(Kishimoto, Akitaka) *see* **Quantum and non-commutative analysis, 94m:00033**
(Köthe, Gottfried) *see* **Dedicated to the memory of Professor Gottfried Köthe**
(Luxemburg, W. A. J.) *see* **Positive operators and semigroups on Banach lattices, 94c:47002**
Niculescu, Constantin P. *see* **Cristescu, Romulus; et al., 94j:46001**
(Ojima, Izumi) *see* **Quantum and non-commutative analysis, 94m:00033**
Păltineanu, Gavril *see* **Cristescu, Romulus; et al., 94j:46001**
Popa, Nicolae *see* **Cristescu, Romulus; et al., 94j:46001**
(Shtraus, A. V.) *see* **Functional analysis, 94k:47001**
Vuza, Dan Tudor *see* **Cristescu, Romulus; et al., 94j:46001**

Items listed otherwise than by author

Birthday:
Araki, Huzihiro ★ Quantum and non-commutative analysis. **94m:00033**
Conference:
Positive Operators and Semigroups on Banach Lattices ★ Positive operators and semigroups on Banach lattices. **94c:47002**
Curaçao ★ Positive operators and semigroups on Banach lattices. **94c:47002**
Dedicated to the memory of Professor Gottfried Köthe ★ Dedicated to the memory of Professor Gottfried Köthe.
— ★ Dedicated to the memory of Professor Gottfried Köthe.
Functional analysis ★ Функциональный анализ. Вып. 34. (Russian) [Functional analysis. No. 34] **94k:47001**
Kyoto ★ Quantum and non-commutative analysis. **94m:00033**
Order structures in functional analysis *see* **Cristescu, Romulus; et al., 94j:46001**
Positive operators and semigroups on Banach lattices ★ Positive operators and semigroups on Banach lattices. **94c:47002**
Quantum and non-commutative analysis ★ Quantum and non-commutative analysis. **94m:00033**
Seminar:
Quantum Analysis ★ Quantum and non-commutative analysis. **94m:00033**
Symposium:
Non-commutative Analysis ★ Quantum and non-commutative analysis. **94m:00033**

46Axx Topological linear spaces and related structures {For function spaces, see 46Exx.}

Items with secondary classifications in 46Axx

Bonet, José (*with* Díaz Alcaide, Juan Carlos; Taskinen, Jari) Tensor stable Fréchet and (DF)-spaces. (English summary) **94c:46140**
— (*with* Lindström, Mikael) Convergent sequences in duals of Fréchet spaces. **94i:46002**
De Grande-De Kimpe, Nicole (*with* Pérez-García, Cristina; Schikhof, W. H.) Non-Archimedean t-frames and FM-spaces. (English summary) **94c:46154**
Díaz Alcaide, Juan Carlos (*with* López Molina, J. A.; Rivera Ortún, María José) Distinguished injective tensor products of Fréchet spaces. (English summary) **94c:46141**
— *see also* **Bonet, José; et al., 94c:46140**
Lindström, Mikael *see* **Bonet, José, 94i:46002**
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Pérez-García, Cristina *see* **De Grande-De Kimpe, Nicole; et al., 94c:46154**
Peris, Alfredo Quasinormable spaces and the problem of topologies of Grothendieck. (English summary) **94k:46004**
Precupanu, Teodor ★ Spaţii liniare topologice şi elemente de analiză convexă. (Romanian) [Linear topological spaces and fundamentals of convex analysis] **94m:46001**
Rivera Ortún, María José *see* **Díaz Alcaide, Juan Carlos; et al., 94c:46141**
Schikhof, W. H. *see* **De Grande-De Kimpe, Nicole; et al., 94c:46154**
(Shih, Mou Hsiang) *see* **Wong, Yau-Chuen, 94c:46003**
Taskinen, Jari *see* **Bonet, José; et al., 94c:46140**
Wong, Yau-Chuen ★ Introductory theory of topological vector spaces. **94c:46003**

46A03 General theory of locally convex spaces

Amurăriţei, Gheorghe Une topologie forte sur un espace localement convexe. (Romanian summary) [A strong topology on a locally convex space] **94g:46002**
Bu, Qing Ying *see* **Li, Rong Lu, 94a:46002**
Castillo, Jesús M. F. Embedding sums into products of Banach spaces. (English summary) **94e:46002**
Chakraborty, Gargi On certain uniqueness concepts in locally convex linear topological spaces. (English summary)
Cho, Min Hyung *see* **Li, Rong Lu; et al., 94c:46005**
Díaz Madrigal, Santiago On Schwartz's C-spaces and Orlicz's O-spaces. **94c:46004**
Li, Rong Lu (*with* Swartz, Charles; Cho, Min Hyung) Basic properties of $\mathscr{X}$-spaces. (English summary) **94c:46005**
— (*with* Bu, Qing Ying) Locally convex spaces containing no copy of c_0. (English summary) **94a:46002**
Peris, Alfredo Quasinormable spaces and the problem of topologies of Grothendieck. (English summary) **94k:46004**
Saxon, Stephen A. Non-Baire hyperplanes in nonseparable Baire spaces. (English summary) **94a:46003**
Swartz, Charles *see* **Li, Rong Lu; et al., 94c:46005**
Vladimirskii, Yu. N. Quasi-WCG-spaces. (Russian) **94a:46004**

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Banaszczyk, Wojciech Rearrangement of series in nonnuclear spaces. (English summary) **94j:46011**
Bu, Qing Ying *see* **Wu, Cong Xin, 94g:46011**
Caldas Cueva, Miguel Two new classes of locally K-convex spaces. (English summary) **94i:46104a**
— Stability of barrelledness and infrabarrelledness in locally K-convex spaces. (English summary) **94i:46104b**
— Some classes of non-Archimedean locally convex spaces. (English summary) **94i:46104c**
Domański, Paweł A note on projective limits of LB-spaces. **94a:46010**
Ferrando, J. C. (*with* Sánchez Ruiz, L. M.) Countably quasi-suprabarrelled spaces. (English summary) **94e:46005**
Galbis, Antonio (*with* Peris, Alfredo) Some questions of Heinrich on ultrapowers of locally convex spaces. (English summary) **94m:46002**
Gilsdorf, Thomas E. Boundedly compatible webs and strict Mackey convergence. (English summary) **94g:46004**
Hansel, Georges (*with* Troallic, Jean-Pierre) Quasicontinuity and Namioka's theorem. (English summary) **94a:54047**
Jain, Pawan Kumar (*with* Jarrah, A. M.; Sinha, D. P.) Almost shrinking, semishrinking and semiboundedly complete Schauder bases in locally convex spaces. (English summary) **94c:46012**
Jarrah, A. M. *see* **Jain, Pawan Kumar; et al., 94c:46012**
Kąkol, Jerzy (*with* Roelcke, W.) Topological vector spaces with some Baire-type properties. **94k:46007**
Meléndez, Yolanda ★ Inductive limits of Moscatelli type for locally convex spaces. **94b:46005**
Peris, Alfredo *see* **Galbis, Antonio, 94m:46002**
Roelcke, W. *see* **Kąkol, Jerzy, 94k:46007**
Sánchez Ruiz, L. M. On some topological vector spaces related to the general open mapping theorem. **94g:46007**
— *see also* **Ferrando, J. C., 94e:46005**
Sinha, D. P. *see* **Jain, Pawan Kumar; et al., 94c:46012**
Smolyanov, O. G. Nonclosed sequentially closed subsets of locally convex spaces and applications. (English summary) **94k:46014**
Terao, Yutaka On a continuous base of fuzzy neighbourhoods of the origin on fuzzy locally convex spaces. (English summary) **94k:46161**
Troallic, Jean-Pierre *see* **Hansel, Georges, 94a:54047**
Waelbroeck, Lucien Around the quotient bornological spaces. **94k:46150**
Wu, Cong Xin (*with* Bu, Qing Ying) Characterizations of cmc(X) which is GAK-space. **94g:46011**

46A04 Locally convex Fréchet spaces and (DF)-spaces

Bonet, José (*with* Dierolf, Susanne; Fernández, Carmen) On different types of nondistinguished Fréchet spaces. **94f:46004**
— (*with* Dierolf, Susanne) On the lifting of bounded sets in Fréchet spaces. (English summary) **94c:46006**
— (*with* Lindström, Mikael) Convergent sequences in duals of Fréchet spaces. **94i:46002**
Calvi, Jean Paul Interpolation in Fréchet spaces with an application to complex function theory. (English summary) **94e:46003**
Díaz Alcaide, Juan Carlos Two problems of Valdivia on distinguished Fréchet spaces. **94i:46003**
— On the three-space property: noncontainment of l_p, $1 \le p < \infty$, or c_0 subspaces. (English summary) **94j:46002**
Dierolf, Susanne (*with* Domański, Paweł) Factorization of Montel operators. (English summary) **94i:46004**
— *see also* **Bonet, José, 94c:46006** *and* **94f:46004**
Domański, Paweł *see* **Dierolf, Susanne, 94i:46004**
Fernández, Carmen A note on absolutely summable sequences in (LF)-spaces. (English summary) **94h:46002**
— *see also* **Bonet, José; et al., 94f:46004**
Galbis, Antonio (*with* Peris, Alfredo) Some questions of Heinrich on ultrapowers of locally convex spaces. (English summary) **94m:46002**
Junek, H. Factorization of operator ideals and bounded sets in tensor products of locally convex spaces. **94k:46005**
Lindström, Mikael (*with* Schlumprecht, Thomas) A Josefson-Nissenzweig theorem for Fréchet spaces. **94a:46005**
— *see also* **Bonet, José, 94i:46002**
Mattila, Päivi (*with* Taskinen, Jari) Remarks on bases in a Fréchet function space. (English summary) **94i:46005**
Meléndez, Yolanda Some results on weighted Fréchet and LB-spaces of Moscatelli type. **94j:46003**
Mujica, Jorge Embeddings of Fréchet spaces in uniform Fréchet algebras. **94h:46003**
Önal, Süleyman (*with* Terzioğlu, Tosun) A characterization of a class of Fréchet spaces and the density condition. **94f:46005**
Peris, Alfredo *see* **Galbis, Antonio, 94m:46002**
Poppenberg, Markus Simultaneous smoothing and interpolation with respect to E. Borel's theorem. **94h:46004**
(Prada, J.) *see* **Yurdakul, M., 94i:46006**
Ramanujan, M. S. (*with* Vogt, Dietmar) Fréchet spaces between which all continuous linear maps are compact. **94h:46005**
Saxon, Stephen A. Every countable-codimensional subspace of an infinite-dimensional (nonnormable) Fréchet space has an infinite-dimensional Fréchet quotient (isomorphic to ω). (English summary) **94a:46006**
Schlumprecht, Thomas *see* **Lindström, Mikael, 94a:46005**
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— *see also* **Önal, Süleyman, 94f:46005**
Valdivia, Manuel Decompositions of Fréchet spaces into some direct topological sums. (Spanish. English summary) **94g:46003**
— Fréchet spaces with no subspaces isomorphic to l_1. (English summary) **94f:46006**
Vogt, Dietmar *see* **Ramanujan, M. S., 94h:46005** *and* **Terzioğlu, Tosun, 94m:46003**
Yurdakul, M. A remark on a paper: "On idempotent operators on Fréchet spaces" [Arch. Math. (Basel) **43** (1984), no. 2, 179–182; MR 85k:47003] by J. Prada. **94i:46006**

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Abul-Ez, M. A. *see* **Cnops, J., 94j:46012**
Bierstedt, Klaus-D. (*with* Bonet, José; Galbis, Antonio) Weighted spaces of holomorphic functions on balanced domains. **94i:46034**
Bonet, José (*with* Díaz Alcaide, Juan Carlos) Distinguished subspaces and quotients of Köthe echelon spaces. (English summary) **94i:46012**
— (*with* Díaz Alcaide, Juan Carlos; Taskinen, Jari) Tensor stable Fréchet and (DF)-spaces. (English summary) **94c:46140**
— (*with* Taskinen, Jari) Quojections and the problem of topologies of Grothendieck. (English summary) **94m:46010**
— *see also* **Bierstedt, Klaus-D.; et al., 94i:46034**

Caldas Cueva, Miguel A polynomial significant property of non-Archimedean locally convex spaces. **94f:46100**
Cnops, J. (*with* Abul-Ez, M. A.) Basis transforms in nuclear Fréchet spaces. (English summary) **94j:46012**
Defant, Andreas (*with* Floret, Klaus) Tensornorm techniques for the (DF)-space problem. (English summary) **94c:46142**
Díaz Alcaide, Juan Carlos (*with* López Molina, J. A.; Rivera Ortún, María José) Distinguished injective tensor products of Fréchet spaces. (English summary) **94c:46141**
— A note on holomorphic functions of bounded type in Fréchet spaces. (English summary) **94h:46069**
— (*with* Miñarro, M. Ángeles) On Fréchet Montel spaces and their projective tensor product. (English summary) **94f:46009**
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Domański, Paweł Twisted Fréchet spaces of continuous functions. **94c:46045**
— (*with* Drewnowski, Lech) Complementability and injectivity of Fréchet spaces of continuous vector-valued functions. **94i:46047**
Drewnowski, Lech *see* **Domański, Paweł, 94i:46047**
Dzhakov, Plamen B. A criterium for the existence of bases in nuclear Fréchet spaces. (English and Turkish summaries) **94d:46011**
Floret, Klaus *see* **Defant, Andreas, 94c:46142**
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Korobeinik, Yu. F. (*with* Melikhov, S. N.) A linear continuous right inverse operator for the representation operator, and applications to convolution operators. (Russian. English and Russian summaries) **94e:30021**
López Molina, J. A. Distinguished injective tensor products of Fréchet spaces. (Spanish) **94e:46009**
— (*with* Rivera Ortún, María José) Localization of bounded sets in the tensor products of Lapresté. (English summary) **94g:46084**
— *see also* **Díaz Alcaide, Juan Carlos; et al., 94c:46141**
Meise, Reinhold (*with* Vogt, Dietmar) ★ Einführung in die Funktionalanalysis. (German) [Introduction to functional analysis] **94f:46003**
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Miñarro, M. Ángeles *see* **Díaz Alcaide, Juan Carlos, 94f:46009**
Pérez-García, Cristina (*with* Schikhof, W. H.) The Orlicz-Pettis property in p-adic analysis. (English summary) **94k:46160**
Peris, Alfredo Topological tensor products of a Fréchet-Schwartz space and a Banach space. (English summary) **94j:46010**
Rivera Ortún, María José *see* **Díaz Alcaide, Juan Carlos; et al., 94c:46141** *and* **López Molina, J. A., 94g:46084**
Schikhof, W. H. *see* **Pérez-García, Cristina, 94k:46160**
Shkarin, S. A. The moment problem in Fréchet spaces. (Russian. Russian summary) **94i:44010**
Taskinen, Jari *see* **Bonet, José; et al., 94c:46140** *and* **94m:46010**
Vogt, Dietmar *see* **Meise, Reinhold, 94f:46003**
Wong, M. W. Spectral theory in Fréchet spaces. (English summary) **94f:47001**
Zakharyuta, V. P. Spaces of harmonic functions. **94i:46036**

46A08 Barrelled spaces, bornological spaces

Caldas Cueva, Miguel Two new classes of locally K-convex spaces. (English and Spanish summaries) **94a:46007**
Catalan, F. X. (*with* Tweddle, Ian) Countable enlargements of norm topologies and the quasidistinguished property. **94c:46007**
Díaz Madrigal, Santiago (*with* Fernández López, Antonio[2]; Florencio, Miguel; Paúl, Pedro J.) An abstract Banach-Steinhaus theorem and applications to function spaces. (English summary) **94b:46004**
Drewnowski, Lech (*with* Florencio, Miguel; Paúl, Pedro J.) Uniform boundedness of operators and barrelledness in spaces with Boolean algebras of projections. **94m:46004**
— (*with* Florencio, Miguel; Paúl, Pedro J.) Barrelled subspaces of spaces with subseries decompositions or Boolean rings of projections. **94m:46005**
Fernández López, Antonio[2] *see* **Díaz Madrigal, Santiago; et al., 94b:46004**
Ferrando, J. C. (*with* Sánchez Ruiz, L. M.) On a barrelled space of class $\aleph_0$ and measure theory. **94e:46004b**
— (*with* Sánchez Ruiz, L. M.) Countably quasi-suprabarrelled spaces. (English summary) **94e:46005**
— (*with* Ferrer, J.) On certain nonbarrelled normed spaces. (English summary) **94c:46008**
— (*with* López Pellicer, Manuel) Correction to the paper: "Barrelled spaces of class $\aleph_0$ which are not totally barrelled" [Math. Japon. 37 (1992), no. 3, 465–471; MR 93d:46007]. **94j:46004**
Ferrer, J. *see* **Ferrando, J. C., 94c:46008**
Ferrer Villanueva, José R. (*with* López Pellicer, Manuel; Sánchez Ruiz, L. M.) Suprabarrelledness of $l_0^\infty(H, \mathscr{X})$ and measure theory. **94i:46007**
Florencio, Miguel *see* **Díaz Madrigal, Santiago; et al., 94b:46004**; **Drewnowski, Lech; et al., 94m:46004** *and* **94m:46005**
(Floret, Klaus) *see* **Gilioli, Antonio, 94j:46005**
Gilioli, Antonio Natural ultrabornological, noncomplete, normed function spaces. **94j:46005**
Gilsdorf, Thomas E. Boundedly compatible webs and strict Mackey convergence. (English summary) **94g:46004**
Haluška, Ján On a lattice structure of operator spaces in complete bornological locally convex spaces. (English summary) **94k:46006**
(Hönig, Chaim S.) *see* **Gilioli, Antonio, 94j:46005**
Kąkol, Jerzy Sequentially barrelled spaces and the strongest locally convex topology. **94f:46007**
— (*with* Roelcke, W.) Topological vector spaces with some Baire-type properties. **94k:46007**
— Sequential closure conditions and Baire-like spaces. **94a:46008**
López Pellicer, Manuel Barrelling classes and bounded measures. (Spanish) **94e:46004c**
— An extension of the Nikodým-Grothendieck theorem. (Spanish) **94e:46004a**
— *see also* **Ferrer Villanueva, José R.; et al., 94i:46007** *and* **Ferrando, J. C., 94j:46004**
Narayanaswami, P. P. The separable quotient problem for barrelled spaces. (English summary) **94m:46006**
Paúl, Pedro J. *see* **Díaz Madrigal, Santiago; et al., 94b:46004**; **Drewnowski, Lech; et al., 94m:46004** *and* **94m:46005**
Roelcke, W. *see* **Kąkol, Jerzy, 94k:46007**
Sánchez Ruiz, L. M. Some classes of linearly topologized spaces. **94a:46009**
— *see also* **Ferrando, J. C., 94e:46004b**; **94e:46005** *and* **Ferrer Villanueva, José R.; et al., 94i:46007**
Tweddle, Ian *see* **Catalan, F. X., 94c:46007**

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— Der Satz von Mackey-Ulam in topologischen Vektorräumen. [The theorem of Mackey-Ulam in topological vector spaces] **94g:46005**
Bonet, José (*with* Díaz Alcaide, Juan Carlos) Distinguished subspaces and quotients of Köthe echelon spaces. (English summary) **94i:46012**
— (*with* Dierolf, Susanne) On the lifting of bounded sets in Fréchet spaces. (English summary) **94c:46006**
Bu, Qing Ying *see* **Wu, Cong Xin, 94g:46010**
Caldas Cueva, Miguel Some classes of non-Archimedean convex spaces. (English summary) **94e:46137**
— A non-Archimedean generalization of Mahowald's theorem for d-barrelled spaces. (Portuguese. Portuguese summary) **94b:46107**
Cho, Min Hyung *see* **Li, Rong Lu; et al., 94c:46005**
Díaz Alcaide, Juan Carlos (*with* Florencio, Miguel; Paúl, Pedro J.) A uniform boundedness theorem for $L^\infty(\mu, E)$. **94f:46037**
— Two problems of Valdivia on distinguished Fréchet spaces. **94i:46003**
— *see also* **Bonet, José, 94i:46012**
Dierolf, Susanne *see* **Bonet, José, 94c:46006**
Faure, Claude-Alain (*with* Frölicher, Alfred) The uniform boundedness principle for bornological vector spaces. **94k:46009**
Fernández López, Antonio[2] (*with* Florencio, Miguel) The space of essentially bounded measurable functions with values in a DF-space. (English summary) **94i:46048**
Ferrando, J. C. Totally barrelled subspaces in Banach spaces with basis. (Spanish. English and Spanish summaries) **94e:46043**
— Ultrabornological Bochner integrable function spaces. (English summary) **94f:46039**
— On the barrelledness of the space $L_p(\mu, X)$ with $1 \le p < \infty$. **94b:46056**
— On the ultrabornological property of the vector valued bounded function space. (English summary) **94k:46056**
Florencio, Miguel *see* **Díaz Alcaide, Juan Carlos; et al., 94f:46037** *and* **Fernández López, Antonio[2], 94i:46048**
Fourie, Jan H. $\aleph_0$-barrelledness on generalized sequence spaces. (English summary) **94b:46007**
Frölicher, Alfred *see* **Faure, Claude-Alain, 94k:46009**
Li, Rong Lu (*with* Swartz, Charles) Spaces for which the uniform boundedness principle holds. **94h:46015**
— (*with* Swartz, Charles; Cho, Min Hyung) Basic properties of $\mathscr{X}$-spaces. (English summary) **94c:46005**
Miñarro, M. Ángeles Barrelledness of $L_b(\lambda_p, X)$. (English summary) **94k:46015**
Orestijević, Stojanka Hyperplanes of locally convex groups. (English summary) **94i:22011**
Oubbi, Lahbib A theorem of Nachbin-Shirota type for algebras. **94h:46077**
Paúl, Pedro J. *see* **Díaz Alcaide, Juan Carlos; et al., 94f:46037**
Pombo, Dinamérico P., Jr. Linear topologies and linear bornologies on modules. **94k:46010**
Sánchez Ruiz, L. M. On sequential barrelledness without local convexity conditions. **94i:46011**
Swartz, Charles *see* **Li, Rong Lu; et al., 94c:46005** *and* **94h:46015**
Waelbroeck, Lucien Around the quotient bornological spaces. **94k:46150**
— The category of quotient bornological spaces. (English summary) **94j:46071**
Wu, Cong Xin (*with* Bu, Qing Ying) Vector-valued sequence space $\Lambda[X]$ and its Köthe dual. I. GAK-property, separability and barrelledness. (English summary) **94g:46010**

46A11 Spaces determined by compactness or summability properties (nuclear spaces, Schwartz spaces, Montel spaces, etc.)

Bonet, José (*with* Lindström, Mikael) Spaces of operators between Fréchet spaces. (English summary) **94k:46008**
Lindström, Mikael *see* **Bonet, José, 94k:46008**
Vogt, Dietmar (*with* Walldorf, Volker) Two results on Fréchet Schwartz spaces. **94j:46006**
Walldorf, Volker *see* **Vogt, Dietmar, 94j:46006**

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Betancor, Jorge J. (*with* Marrero, I.) Multipliers of Hankel transformable generalized functions. (English summary) **94f:46051**
Bonet, José (*with* Dierolf, Susanne) On the lifting of bounded sets in Fréchet spaces. (English summary) **94c:46006**
Boyd, Christopher Montel and reflexive preduals of spaces of holomorphic functions on Fréchet spaces. (English summary) **94m:46080**
Castillo, Jesús M. F. Fréchet interpolation spaces and Grothendieck operator ideals. (English summary) **94c:46147**
Chan-Porn Les systèmes de représentation absolue et le prolongement des fonctions entières dans les espaces duaux de Fréchet-Montel. [Systems of absolute representation and extension of entire functions in dual Fréchet-Montel spaces] **94d:46023**
De Grande-De Kimpe, Nicole (*with* Pérez-García, Cristina) p-adic semi-Montel spaces and polar inductive limits. (English summary) **94g:46092**
Díaz Alcaide, Juan Carlos (*with* Miñarro, M. Ángeles) On Fréchet Montel spaces and their projective tensor product. (English summary) **94f:46009**
Dierolf, Susanne *see* **Bonet, José, 94c:46006**

Dzhakov, Plamen B. A criterium for the existence of bases in nuclear Fréchet spaces. (English and Turkish summaries) **94d:46011**
Lindström, Mikael (*with* Schlumprecht, Thomas) A Josefson-Nissenzweig theorem for Fréchet spaces. **94a:46005**
Marrero, I. *see* **Betancor, Jorge J., 94f:46051**
Miñarro, M. Ángeles *see* **Díaz Alcaide, Juan Carlos, 94f:46009**
Nurlu, Zafer (*with* Sarsour, Jasser) Bessaga's conjecture in unstable Köthe spaces and products. (English summary) **94g:46009**
Önal, Süleyman (*with* Terzioğlu, Tosun) A characterization of a class of Fréchet spaces and the density condition. **94f:46005**
Pérez-García, Cristina *see* **De Grande-De Kimpe, Nicole, 94g:46092**
Peris, Alfredo Topological tensor products of a Fréchet-Schwartz space and a Banach space. (English summary) **94j:46010**
Sarsour, Jasser *see* **Nurlu, Zafer, 94g:46009**
Schlumprecht, Thomas *see* **Lindström, Mikael, 94a:46005**
Schweitzer, Larry B. Dense m-convex Fréchet subalgebras of operator algebra crossed products by Lie groups. (English summary) **94g:46058**
Terzioğlu, Tosun *see* **Önal, Süleyman, 94f:46005**

46A13 Spaces defined by inductive or projective limits (LB, LF, etc.) [see also 46M40]

Bierstedt, Klaus-D. (*with* Bonet, José) A question of D. Vogt on (LF)-spaces. **94m:46007**
Bonet, José *see* **Bierstedt, Klaus-D., 94m:46007**
Bosch, Carlos (*with* Kucera, Jan) Closed bounded sets in inductive limits of $\mathscr{K}$-spaces. **94d:46005**
Bratishchev, A. V. On the Köthe basis property and the moment problem in a Fréchet space with the weak topology. (Russian) **94m:46008**
Çakmak, Z. Every reflexive quojection is the quotient of a product of reflexive Banach spaces. **94i:46008**
Domański, Paweł A note on projective limits of LB-spaces. **94a:46010**
Ferrando, J. C. A projective description of the simple scalar function space. (English and Spanish summaries) **94e:46006**
Kucera, Jan (*with* McKennon, Kelly) Quasi-incomplete regular LB-space. (English summary) **94i:46009**
— *see also* **Bosch, Carlos, 94d:46005**
McKennon, Kelly *see* **Kucera, Jan, 94i:46009**
Meléndez, Yolanda ★ Inductive limits of Moscatelli type for locally convex spaces. **94b:46005**
— Some results on the duals of the inductive and projective limits of Moscatelli type. **94f:46008**
Zarnadze, D. N. Some topological and geometric properties of Fréchet-Hilbert spaces. (Russian. Russian summary) **94c:46009**

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Bierstedt, Klaus-D. (*with* Bonet, José; Galbis, Antonio) Weighted spaces of holomorphic functions on balanced domains. **94i:46034**
Bonet, José (*with* Dierolf, Susanne; Fernández, Carmen) On different types of nondistinguished Fréchet spaces. **94f:46004**
— (*with* Taskinen, Jari) Quojections and the problem of topologies of Grothendieck. (English summary) **94m:46010**
— *see also* **Bierstedt, Klaus-D.; et al., 94i:46034**
Castillo, Jesús M. F. Embedding sums into products of Banach spaces. (English summary) **94e:46002**
Dierolf, Susanne (*with* Domański, Paweł) Factorization of Montel operators. (English summary) **94i:46004**
— *see also* **Bonet, José; et al., 94f:46004**
Dineen, Seán (*with* Moraes, Luiza A.) Holomorphic functions on strict inductive limits of Banach spaces. (English summary) **94c:46088**
Domański, Paweł *see* **Dierolf, Susanne, 94i:46004**
Fernández, Carmen *see* **Bonet, José; et al., 94f:46004**
Galbis, Antonio (*with* Peris, Alfredo) Some questions of Heinrich on ultrapowers of locally convex spaces. (English summary) **94m:46002**
— *see also* **Bierstedt, Klaus-D.; et al., 94i:46034**
Junek, H. Factorization of operator ideals and bounded sets in tensor products of locally convex spaces. **94k:46005**
Kramar, Edvard On the numerical range of operators on locally and on H-locally convex spaces. (English summary) **94h:47004**
Maslyuchenko, V. K. (*with* Plichko, A. N.) On a family of topologies on the space l_p. (Ukrainian. Ukrainian summary) **94e:46018**
Meléndez, Yolanda Some results on weighted Fréchet and LB-spaces of Moscatelli type. **94j:46003**
Moraes, Luiza A. *see* **Dineen, Seán, 94c:46088**
Oubbi, Lahbib Limites inductives d'algèbres A-convexes et opérateurs bornés. (English summary) [Inductive limits of A-convex algebras and bounded operators] **94a:46059**
Peris, Alfredo Topological tensor products of a Fréchet-Schwartz space and a Banach space. (English summary) **94j:46010**
— *see also* **Galbis, Antonio, 94m:46002**
Plichko, A. N. *see* **Maslyuchenko, V. K., 94e:46018**
Taskinen, Jari *see* **Bonet, José, 94m:46010**

46A16 Not locally convex spaces (metrizable topological linear spaces, locally bounded spaces, quasi-Banach spaces, etc.)

Adasch, N. Der Satz von Mackey-Ulam in topologischen Vektorräumen. [The theorem of Mackey-Ulam in topological vector spaces] **94g:46005**
Bastero, Jesús (*with* Bernués, Julio) Embedding l_p^n into r-Banach spaces, $0 < r \le p < 2$. **94j:46007**
Bernués, Julio *see* **Bastero, Jesús, 94j:46007**
Kąkol, Jerzy (*with* Roelcke, W.) Unordered Baire-like spaces without local convexity. (English summary) **94g:46006**
Kalton, N. J. (*with* Tam, Sik-Chung) Factorization theorems for quasi-normed spaces. (English summary) **94d:46006**
Peck, N. T. Twisted sums and a problem of Klee. (English summary) **94i:46010**
Roelcke, W. *see* **Kąkol, Jerzy, 94g:46006**
Sánchez Ruiz, L. M. On sequential barrelledness without local convexity conditions. **94i:46011**
Tam, Sik-Chung *see* **Kalton, N. J., 94d:46006**
Vasil'ev, A. I. Approximate compactness in linear metric spaces. (Russian) **94m:46009**
Wang, Zu Yue A class of continuous functionals in p-normed spaces. (Chinese. Chinese summary) **94a:46011**

Items with secondary classifications in 46A16

Bernal, Antonio (*with* Cerdà, Joan) Analytic convexity and complex interpolation. (Spanish summary) **94j:46072**
van der Bijl, Jos (*with* Dobrowolski, Tadeusz; Hart, Klaas Pieter; van Mill, Jan) Admissibility, homeomorphism extension and the AR-property in topological linear spaces. (English summary) **94b:57024**
Cerdà, Joan *see* **Bernal, Antonio, 94j:46072**
Dobrowolski, Tadeusz *see* **van der Bijl, Jos; et al., 94b:57024**
Hart, Klaas Pieter *see* **van der Bijl, Jos; et al., 94b:57024**
Kalton, N. J. A remark on bases in quotients of l_p when $0 < p < 1$. **94m:46011**
van Mill, Jan *see* **van der Bijl, Jos; et al., 94b:57024**
Ovchinnikov, V. I. An optimal interpolation theorem for weighted quasi-Banach spaces l_p and for operators in Neumann-Schatten classes in Hilbert couples. (Russian) **94e:46133**
Weber, Hans Compact convex sets in non-locally convex linear spaces, Schauder-Tychonoff fixed point theorem. **94i:47097**

46A17 Bornologies and related structures; Mackey convergence, etc.

Faure, Claude-Alain (*with* Frölicher, Alfred) The uniform boundedness principle for bornological vector spaces. **94k:46009**
Frölicher, Alfred *see* **Faure, Claude-Alain, 94k:46009**
Pombo, Dinamérico P., Jr. Linear topologies and linear bornologies on modules. **94k:46010**

Items with secondary classifications in 46A17

Gilsdorf, Thomas E. Boundedly compatible webs and strict Mackey convergence. (English summary) **94g:46004**
Schlüchtermann, Georg (*with* Wheeler, Robert F.) The Mackey dual of a Banach space. **94m:46028**
Valdivia, Manuel Decompositions of Fréchet spaces into some direct topological sums. (Spanish. English summary) **94g:46003**
— Fréchet spaces with no subspaces isomorphic to l_1. (English summary) **94f:46006**
Wheeler, Robert F. *see* **Schlüchtermann, Georg, 94m:46028**

46A19 Other "topological" linear spaces (convergence spaces, ranked spaces, spaces with a metric taking values in an ordered structure more general than R, etc.)

Abe, Yutaka *see* **Sakurada, Kuninori; et al.**
Ishida, Toshiyuki *see* **Sakurada, Kuninori; et al.**
Kusraev, A. G. Kantorovich spaces and the metrization problem. (Russian. English and Russian summaries) **94h:46006**
Miyamoto, Yutaka *see* **Sakurada, Kuninori; et al.**
Nakanishi, Shizu Differential calculus in (CUN) spaces. I. (English summary) **94a:46012**
Sakurada, Kuninori (*with* Ishida, Toshiyuki; Miyamoto, Yutaka; Abe, Yutaka) On (UCp-M) spaces and linearity. (English summary)

46A20 Duality theory

Bandyopadhyay, Shyamdas *see* **Srivastava, J. K., 94k:46011**
Kąkol, Jerzy A note on a theorem of Klee. (English summary) **94e:46007**
Li, Rong Lu (*with* Min-Hyungcho) A general Kalton-type theorem. **94c:46010**
Min-Hyungcho *see* **Li, Rong Lu, 94c:46010**
Plewnia, Jolanta A generalization of the Hahn-Banach theorem. (English summary) **94d:46007**
Srivastava, J. K. (*with* Bandyopadhyay, Shyamdas) On a function space in a locally convex space as a generalization of Iyer's space of integral functions. **94k:46011**

Items with secondary classifications in 46A20

Bu, Qing Ying *see* **Wu, Cong Xin, 94g:46010**
Calvi, Jean Paul Interpolation in Fréchet spaces with an application to complex function theory. (English summary) **94e:46003**
Chan-Porn Les systèmes de représentation absolue et le prolongement des fonctions entières dans les espaces duaux de Fréchet-Montel. [Systems of absolute representation and extension of entire functions in dual Fréchet-Montel spaces] **94d:46023**
Çolak, Rıfat On some generalized sequence spaces. (English summary) **94e:46013**
Eriksson-Bique, Sirkka-Liisa Duals of H-cones. (English summary) **94j:31011**
Lee, Peng Yee Sequence spaces and the gliding hump property. **94k:46017**
Loginov, A. I. (*with* Shul'man, V. S.) Vector-valued duality for modules over Banach algebras. (Russian. Russian summary) **94h:46074**
López Molina, J. A. Distinguished injective tensor products of Fréchet spaces. (Spanish) **94e:46009**
Meléndez, Yolanda Some results on the duals of the inductive and projective limits of Moscatelli type. **94f:46008**
van Neerven, J. M. A. M. ★ The adjoint of a semigroup of linear operators. **94j:47059**

Plaksa, S. A. On the perturbation of semi-Noether operators in incomplete spaces. I. (Russian. Russian and Ukrainian summaries) **94f:47018**
— On the perturbation of semi-Noether operators in incomplete spaces. II. (Russian. Russian and Ukrainian summaries) **94h:47020**
Shul'man, V. S. *see* **Loginov, A. I., 94h:46074**
Stuart, Christopher E. *see* **Swartz, Charles, 94h:40014**
Swartz, Charles (*with* Stuart, Christopher E.) A projection property and weak sequential completeness of α-duals. (English summary) **94h:40014**
Wu, Cong Xin (*with* Bu, Qing Ying) Vector-valued sequence space $\Lambda[X]$ and its Köthe dual. I. GAK-property, separability and barrelledness. (English summary) **94g:46010**

46A22 Theorems of Hahn-Banach type; extension and lifting of functionals and operators [see also 46M10]

Buskes, G. J. H. M. The Hahn-Banach theorem surveyed. **94h:46007**
Gajda, Zbigniew (*with* Smajdor, Andrzej; Smajdor, Wilhelmina) A theorem of the Hahn-Banach type and its applications. (English summary) **94d:46008**
Kąkol, Jerzy Simple construction of spaces without the Hahn-Banach extension property. (English summary) **94j:46008**
Liu, Fèng Chê Measure solutions of systems of inequalities. **94k:46012**
Mustăţa, Costică Selections associated to McShane's extension theorem for Lipschitz functions. **94h:46008**
Park, Sung Ho A little generalization of Hahn-Banach extension property. **94c:46011**
Polonskiĭ, Yu. A. Necessary conditions for the existence of a majorized extension of continuous linear operators. (Russian) **94e:46008**
Saccoman, John J. Extension theorems and the problem of measure. (Italian summary) **94j:46009**
Smajdor, Andrzej *see* **Gajda, Zbigniew; et al., 94d:46008**
Smajdor, Wilhelmina *see* **Gajda, Zbigniew; et al., 94d:46008**
Sorjonen, Pekka Hahn-Banach extension properties in linear orthogonality spaces. (English summary) **94d:46009**

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Başarir, Metin On some new sequence spaces. (English summary) **94e:46011**
Cholewa, Piotr W. A geometric view on δ-convex functions. **94j:26021**
van Douwen, Eric K. Finitely additive measures on N. (English summary) **94c:28004**
Ger, Roman The singular case in the stability behaviour of linear mappings. **94k:39057**
Hässelbarth, W. (*with* Ruch, Ernst) On the extension of linear contractions: some results of the Hahn-Banach type. (English summary) **94a:47031**
Park, Sung Ho Quotient mappings, Helly extensions, Hahn-Banach extensions, Tietze extensions, Lipschitz extensions, and best approximation. **94d:46017**
Ruch, Ernst *see* **Hässelbarth, W., 94a:47031**
Vladimirskiĭ, Yu. N. Quasi-WCG-spaces. (Russian) **94a:46004**
Yang, Xiao Qi A Hahn-Banach theorem in ordered linear spaces and its applications. (English summary) **94j:90032**

46A25 Reflexivity and semi-reflexivity [see also 46B10]

Items with secondary classifications in 46A25

Boyd, Christopher Montel and reflexive preduals of spaces of holomorphic functions on Fréchet spaces. (English summary) **94m:46080**
Galbis, Antonio (*with* Peris, Alfredo) Some questions of Heinrich on ultrapowers of locally convex spaces. (English summary) **94m:46002**
Peris, Alfredo *see* **Galbis, Antonio, 94m:46002**

46A30 Open mapping and closed graph theorems; completeness (including B-, B_r-completeness)

Adasch, N. Der Satz über offene lineare Relationen in topologischen Vektorräumen. [The theorem on open linear relations in topological vector spaces] **94k:46013**
Aguiló i Fuster, Rafael Closable linear mappings. (Catalan. English and Spanish summaries) **94a:46013**
Pap, Endre (*with* Swartz, Charles) An elementary proof of a closed graph theorem on normed $\mathscr{X}$-space. (English summary) **94h:46009**
Qiu, Jing Hui A class of closed graph theorems. (Chinese. Chinese summary) **94d:46010**
Sánchez Ruiz, L. M. On some topological vector spaces related to the general open mapping theorem. **94g:46007**
Smolyanov, O. G. Nonclosed sequentially closed subsets of locally convex spaces and applications. (English summary) **94k:46014**
Swartz, Charles *see* **Pap, Endre, 94h:46009**

Items with secondary classifications in 46A30

Bosch, Carlos (*with* Kucera, Jan) Closed bounded sets in inductive limits of $\mathscr{X}$-spaces. **94d:46005**
Faure, Claude-Alain (*with* Frölicher, Alfred) The uniform boundedness principle for bornological vector spaces. **94k:46009**
Ferrando, J. C. (*with* Sánchez Ruiz, L. M.) Countably quasi-suprabarrelled spaces. (English summary) **94e:46005**
Frölicher, Alfred *see* **Faure, Claude-Alain, 94k:46009**
Gilsdorf, Thomas E. Boundedly compatible webs and strict Mackey convergence. (English summary) **94g:46004**
Kąkol, Jerzy (*with* Roelcke, W.) Topological vector spaces with some Baire-type properties. **94k:46007**
Kucera, Jan *see* **Bosch, Carlos, 94d:46005**
Liang, Xing Chang (*with* Yan, Ge Xing; Ma, Qi Lin) Quasinormed linear spaces and the uniform boundedness theorem. (Chinese. English and Chinese summaries) **94k:46019**
Ma, Qi Lin *see* **Liang, Xing Chang; et al., 94k:46019**
Plaksa, S. A. On the perturbation of semi-Noether operators in incomplete spaces. I. (Russian. Russian and Ukrainian summaries) **94f:47018**
— On the perturbation of semi-Noether operators in incomplete spaces. II. (Russian. Russian and Ukrainian summaries) **94h:47020**
Roelcke, W. *see* **Kąkol, Jerzy, 94k:46007**
Sánchez Ruiz, L. M. *see* **Ferrando, J. C., 94e:46005**
Slezák, B. On the inverse function theorem in F-spaces. **94e:46080**
Yan, Ge Xing *see* **Liang, Xing Chang; et al., 94k:46019**

46A32 Spaces of linear operators; topological tensor products; approximation properties [see also 46B28, 46M05, 47D15, 47D50]

Bonet, José (*with* Taskinen, Jari) Quojections and the problem of topologies of Grothendieck. (English summary) **94m:46010**
Cho, Yeol Je *see* **Kim, Seong Sik; et al., 94h:46010**
Díaz Alcaide, Juan Carlos (*with* Miñarro, M. Ángeles) On Fréchet Montel spaces and their projective tensor product. (English summary) **94f:46009**
García Nogales, A. $\mathscr{X}$-analyticity of spaces of compact and nuclear operators. (Spanish summary) **94a:46014**
Kim, Seong Sik (*with* Cho, Yeol Je; White, Albert) Linear operators on linear 2-normed spaces. (English and Serbo-Croatian summaries) **94h:46010**
López Molina, J. A. Distinguished injective tensor products of Fréchet spaces. (Spanish) **94e:46009**
Miñarro, M. Ángeles Barrelledness of $L_b(\lambda_p, X)$. (English summary) **94k:46015**
— *see also* **Díaz Alcaide, Juan Carlos, 94f:46009**
Peris, Alfredo Topological tensor products of a Fréchet-Schwartz space and a Banach space. (English summary) **94j:46010**
Taskinen, Jari *see* **Bonet, José, 94m:46010**
White, Albert *see* **Kim, Seong Sik; et al., 94h:46010**

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Bonet, José (*with* Lindström, Mikael) Spaces of operators between Fréchet spaces. (English summary) **94k:46008**
Bu, Qing Ying *see* **Wu, Cong Xin, 94g:46011**
Emmanuele, Giovanni On complemented copies of c_0 in spaces of operators. (English summary) **94b:46027**
Li, Rong Lu (*with* Swartz, Charles) Spaces for which the uniform boundedness principle holds. **94h:46015**
Lindström, Mikael *see* **Bonet, José, 94k:46008**
Popova, L. V. Lipschitz curves and double martingales with values in the spaces L_p $(0 < p \leq 1)$. (Russian) **94i:46014**
Ramanujan, M. S. (*with* Vogt, Dietmar) Fréchet spaces between which all continuous linear maps are compact. **94h:46005**
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Voigt, Jürgen On the convex compactness property for the strong operator topology. **94k:46038**
Wong, Ngai Ching (*with* Wong, Yau-Chuen) The bornologically surjective hull of an operator ideal on locally convex spaces. (English summary) **94k:47072**
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Wu, Cong Xin (*with* Bu, Qing Ying) Characterizations of cmc(X) which is GAK-space. **94g:46011**

46A35 Summability and bases [see also 46B15]

Abul-Ez, M. A. *see* **Cnops, J., 94j:46012**
Banaszczyk, Wojciech Rearrangement of series in nonnuclear spaces. (English summary) **94j:46011**
Cnops, J. (*with* Abul-Ez, M. A.) Basis transforms in nuclear Fréchet spaces. (English summary) **94j:46012**
Dzhakov, Plamen B. A criterium for the existence of bases in nuclear Fréchet spaces. (English and Turkish summaries) **94d:46011**
Hernández Rodríguez, Francisco L. (*with* Troyanski, Stanimir L.) On the representation of uncountable symmetric basic sets and its applications. (English summary) **94j:46013**
Jain, Pawan Kumar (*with* Jarrah, A. M.; Sinha, D. P.) Almost shrinking, semishrinking and semiboundedly complete Schauder bases in locally convex spaces. (English summary) **94c:46012**
Jarrah, A. M. *see* **Jain, Pawan Kumar; et al., 94c:46012**
Kalton, N. J. A remark on bases in quotients of l_p when $0 < p < 1$. **94m:46011**
Korobeĭnik, Yu. F. Nontrivial expansions of zero and absolutely representing systems. (Russian summary) **94b:46006**
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Banaszczyk, Wojciech Summable families in nuclear groups. (English summary) **94f:40013**
Bratishchev, A. V. On the Köthe basis property and the moment problem in a Fréchet space with the weak topology. (Russian) **94m:46008**
Jain, Pawan Kumar (*with* Kaushik, S. K.) On k-shrinking and k-boundedly complete M-bases in subspaces and superspaces of Banach spaces. **94g:46017**
Kaushik, S. K. *see* **Jain, Pawan Kumar, 94g:46017**
Kondakov, V. P. (*with* Zakharyuta, V. P.) On bases in spaces of infinitely differentiable functions on special domains with cusp. **94m:46040**
Mattila, Päivi (*with* Taskinen, Jari) Remarks on bases in a Fréchet function space. (English summary) **94i:46005**
Nurlu, Zafer (*with* Sarsour, Jasser) Bessaga's conjecture in unstable Köthe spaces and products. (English summary) **94g:46009**
Odell, E. On quotients of Banach spaces having shrinking unconditional bases. **94f:46015**
Rajammal, K. *see* **Somasundaram, D., 94i:40002**
Redlin, Lothar (*with* Watson, Saleem) Semigroup bases in topological algebras. (English summary) **94a:46061**

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Somasundaram, D. (*with* Rajammal, K.) Tensorial transformations of some matrix spaces. (English summary) **94i:40002**
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46A40 Ordered topological linear spaces, vector lattices [see also 06F20, 46B40, 46B42]

Buskes, G. J. H. M. (*with* de Pagter, Bernardus; van Rooij, A. C. M.) Functional calculus on Riesz spaces. **94c:46013**
— (*with* van Rooij, A. C. M.) The vector lattice cover of certain partially ordered groups. (English summary) **94c:46014**
Dersanambika, K. S. (*with* Govindarajulu, P.; Subba Rao, V.) On ordered almost linear spaces. **94e:46010**
Govindarajulu, P. *see* **Dersanambika, K. S.; et al., 94e:46010**
Kalton, N. J. Remarks on lattice structure in l_p and L_p when $0 < p < 1$. **94j:46014**
de Pagter, Bernardus *see* **Buskes, G. J. H. M.; et al., 94c:46013**
Puglisi, Mario A. (*with* Solimini, Sergio) Measurability in Archimedean Riesz spaces. (Italian. English summary) **94k:46016**
van Rooij, A. C. M. *see* **Buskes, G. J. H. M.; et al., 94c:46013** *and* **94c:46014**
Solimini, Sergio *see* **Puglisi, Mario A., 94k:46016**
Subba Rao, V. *see* **Dersanambika, K. S.; et al., 94e:46010**
Wójtowicz, Marek On a weak Freudenthal spectral theorem. (English summary) **94h:46011**

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Alpay, Şafak (*with* Turan, Bahri) Order properties of the adjoint. (English and Turkish summaries) **94m:47074**
Álvarez-Andrade, Sergio Homothetic invariance of the space $L^0(\mu)$. (English summary) **94i:46043**
Bakier, M. Y. (*with* El-Saady, K.) Fuzzy topological ordered vector spaces. I. (English summary) **94c:46158**
Bukhvalov, A. V. (*with* Korotkov, V. B.; Kusraev, A. G.; Kutateladze, S. S.; Makarov, B. M.) ★ Векторные решетки и интегральные операторы. (Russian. Russian summary) [Vector lattices and integral operators] **94b:46001**
Cristescu, Romulus (*with* Grigore, Gheorghe; Niculescu, Constantin P.; Păltineanu, Gavril; Popa, Nicolae; Vuza, Dan Tudor) ★ Structuri de ordine în analiza funcţională. Vol. 3. (Romanian) [Order structures in functional analysis. Vol. 3] **94j:46001**
Duchoň, Miloslav On Fourier-Stieltjes transforms in vector lattices. (English summary) **94m:42018**
El-Saady, K. *see* **Bakier, M. Y., 94c:46158**
Ferrer-Llopis, Jésus (*with* Gregori, V.; Alegre Gil, Carmen) Quasi-uniform structures in linear lattices. (English summary) **94i:46025**
Gajda, Zbigniew ★ Invariant means and representations of semigroups in the theory of functional equations. (Russian and Polish summaries) **94b:39034**
— (*with* Smajdor, Andrzej; Smajdor, Wilhelmina) A theorem of the Hahn-Banach type and its applications. (English summary) **94d:46008**
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Haluška, Ján On a lattice structure of operator spaces in complete bornological locally convex spaces. (English summary) **94k:46006**
Huijsmans, C. B. (*with* Luxemburg, W. A. J.) An alternative proof of a Radon-Nikodým theorem for lattice homomorphisms. (English summary) **94a:47062**
— (*with* de Pagter, Bernardus) Some remarks on disjointness preserving operators. (English summary) **94a:47063**
— (*with* Wickstead, A. W.) The inverse of band preserving and disjointness preserving operators. **94g:47047**
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Kutateladze, S. S. *see* **Bukhvalov, A. V.; et al., 94b:46001**
Lavrič, Boris On super order principal modules. **94g:06029**
— On ordered topological algebras. (English summary) **94i:46060**
Lepkes, Guido Kompakte Operatoren auf lokal konvex-soliden Riesz-Räumen. [Compact operators on locally convex solid Riesz spaces] **94i:47057**
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Murphy, Gerard J. Partially ordered groups. **94f:06016**
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Verheul, E. R. ★ Multimedians in metric and normed spaces. **94i:54062**
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Wnuk, Witold Banach lattices with properties of the Schur type—a survey. (English summary) **94h:46031**
Yang, Xiao Qi A Hahn-Banach theorem in ordered linear spaces and its applications. (English summary) **94j:90032**
Zhang, Xiao-Dong On spectral properties of positive operators. (English summary) **94b:47047**

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46A45 Sequence spaces (including Köthe sequence spaces) [see also 46B45]

Aleshin, A. A. On the conjugate space to the common kernel of invariant means. (Russian. Russian summary) **94c:46015**
Başarir, Metin On some new sequence spaces. (English summary) **94e:46011**
Beekmann, Wolfgang (*with* Chang, Shao-Chien) On distinguished subsets and conullity of FK-spaces. (English summary) **94f:46010**
Bonet, José (*with* Díaz Alcaide, Juan Carlos) Distinguished subspaces and quotients of Köthe echelon spaces. (English summary) **94i:46012**
Boos, Johann (*with* Cass, Frank Peter) Weak domains of operator valued matrices are $FK(X)$-spaces. (English summary) **94m:46013**
— (*with* Leiger, Toivo) Weak wedge spaces and theorems of Mazur-Orlicz type. (Estonian summary) **94h:46012**
Bu, Qing Ying *see* **Wu, Cong Xin, 94g:46010** *and* **94g:46011**
Cass, Frank Peter (*with* Gao, Xiaopeng) Bounded linear operators on convergent sequences with terms in a Banach space. (English summary) **94m:46012**
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46A70 Saks spaces and their duals (strict topologies, mixed topologies, two-norm spaces, co-Saks spaces, etc.)

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46A80 Modular spaces

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46B03 Isomorphic theory (including renorming) of Banach spaces

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Deville, Robert (*with* Godefroy, Gilles; Zizler, Václav) ★ Smoothness and renormings in Banach spaces. (English summary) **94d:46012**
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Bourgain, Jean A remark on the behaviour of L^p-multipliers and the range of operators acting on L^p-spaces. (English summary) **94m:46047**
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Jayne, J. E. (*with* Namioka, I.; Rogers, C. A.) Fragmentability and σ-fragmentability. (English summary) **94j:46020**
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Díaz Alcaide, Juan Carlos (*with* López Molina, J. A.; Rivera Ortún, María José) Distinguished injective tensor products of Fréchet spaces. (English summary) **94c:46141**
Drewnowski, Lech (*with* Emmanuele, Giovanni) The problem of complementability for some spaces of vector measures of bounded variation with values in Banach spaces containing copies of c_0. (English summary) **94c:46072**
— Nonseparability of the quotient space $\mathrm{cabv}(\Sigma, m; X)/L^1(m; X)$ for Banach spaces X without the Radon-Nikodým property. (English summary) **94c:46073**
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Franchetti, Carlo (*with* Payá-Albert, Rafael) Banach spaces with strongly subdifferentiable norm. (Italian summary) **94d:46015**
Hu, Zhibao (*with* Lin, Bor-Luh) RNP and CPCP in Lebesgue-Bochner function spaces. **94b:46059**
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McLaughlin, David P. (*with* Poliquin, René; Vanderwerff, Jon; Zizler, Václav) Second-order Gateaux differentiable bump functions and approximations in Banach spaces. (English summary) **94g:46025**
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Borwein, Jonathan M. (*with* Fitzpatrick, Simon) A weak Hadamard smooth renorming of $L_1(\Omega, \mu)$. (English summary) **94k:46035**
Carothers, N. L. (*with* Haydon, Richard; Lin, Pei-Kee) On the isometries of the Lorentz function spaces. (English summary) **94i:46024**
Fitzpatrick, Simon *see* **Borwein, Jonathan M., 94k:46035**
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Díaz Alcaide, Juan Carlos On the three-space property: noncontainment of l_p, $1 \le p < \infty$, or c_0 subspaces. (English summary) **94j:46002**
Díaz Madrigal, Santiago (*with* Fernández López, Antonio[2]; Florencio, Miguel; Paúl, Pedro J.) Complemented copies of c_0 in vector-valued Köthe-Dieudonné function spaces. (English summary) **94c:46071**
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Hernández Rodríguez, Francisco L. (*with* Rodríguez-Salinas, Baltasar) Remarks on the Orlicz function spaces $L^p(0, \infty)$. **94i:46044**
Kadets, V. M. (*with* Popov, M. M.) On the Liapunov convexity theorem with applications to sign-embeddings. (English and Ukrainian summaries) **94d:46050**
Leung, Denny H. Isomorphism of certain weak L^p spaces. (English summary) **94b:46041**
Lyubich, Yu. I. (*with* Vaserstein, Leonid N.) Isometric embeddings between classical Banach spaces, cubature formulas, and spherical designs. (English summary) **94j:46017**
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Oja, Eve Complemented subspaces that are isomorphic to l_p spaces in tensor products and operator spaces. (Russian. Russian summary) **94g:46020**
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Rother, Wolfgang[1] The category of certain subsets of L^p. (English summary) **94b:46044**
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Hernández Rodríguez, Francisco L. (*with* Troyanski, Stanimir L.) On the representation of uncountable symmetric basic sets and its applications. (English summary) **94j:46013**
Kalamidas, N. D. Chain conditions and continuous mappings on $C_p(X)$. (English summary) **94b:54005**
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46B28 Spaces of operators; tensor products; approximation properties [see also 46A32, 46M05, 47D15, 47D50]

Calabró, Angela (*with* Cilia, Raffaella) Some observations about the uncomplementability of the space $K(X, Y)$ into the space $\mathrm{DP}(X, Y)$. (Italian summary) **94c:46033**
Cilia, Raffaella *see* **Calabró, Angela, 94c:46033**
Effros, Edward G. (*with* Ruan, Zhong-jin) On the abstract characterization of operator spaces. **94g:46019**
Emmanuele, Giovanni On complemented copies of c_0 in spaces of operators. (English summary) **94b:46027**
Godefroy, Gilles Propriétés isométriques des espaces d'opérateurs compacts. [Isometry properties of compact operator spaces] (*see* **94j:00016**)
Grząślewicz, Ryszard (*with* Younis, Rahman) Smooth points and M-ideals. (English summary) **94c:46034**
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Labsker, L. G. Test sets and distinguishing sets in a Banach space. (Russian) **94c:46035**
Lipecki, Zbigniew Residual sets of compact operators and of vector-valued measures. (English summary) **94e:46040**
Matos, Mário C. On multilinear mappings of nuclear type. (English summary) **94j:46021**
Oja, Eve Complemented subspaces that are isomorphic to l_p spaces in tensor products and operator spaces. (Russian. Russian summary) **94g:46020**
Pisier, Gilles Sur les opérateurs factorisables par OH. (English and French summaries) [Operators factorizable through OH] **94g:46021**
Rao, T. S. S. R. K. The space of compact operators as an M-ideal in its bidual. **94k:46037**
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Asthagiri, Rajappa Weak sequential continuity and the Dunford-Pettis property. (English summary) **94e:46029**
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Edmunds, David E. (*with* Tylli, Hans-Olav) Entropy numbers of tensor products of operators. **94k:47033**
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López Molina, J. A. (*with* Rivera Ortún, María José) Localization of bounded sets in the tensor products of Lapresté. (English summary) **94g:46084**
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Miñarro, M. Ángeles Barrelledness of $L_b(\lambda_p, X)$. (English summary) **94k:46015**
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Pisier, Gilles Espaces L_p non commutatifs à valeurs vectorielles et applications complètement p-sommantes. (English and French summaries) [Noncommutative vector-valued L_p-spaces and completely p-summing maps] **94d:46064**
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Wang, Jia Ping (*with* Yu, Xin Tai) Denseness of operators which attain their numerical radius. (English summary) **94h:47005**
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46B40 Ordered normed spaces [see also 46A40, 46B42]

Becker, Richard Edouard Structure des cônes normaux contenus dans un espace de Banach. [Structure of normal cones contained in a Banach space] (*see* **94j:00016**)
— Structure des cônes normaux contenus dans un espace de Banach ou son dual. II. (English summary) [Structure of normal cones contained in a Banach space or in its dual. II] **94d:46019**

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Bartoszek, Wojciech Riesz decomposition property implies asymptotic periodicity of positive and constrictive operators. **94d:47037**
Chen, Shu Tao (*with* Duan, Yan Zheng) WM property of Orlicz spaces. (English summary) **94c:46055**
Cristescu, Romulus (*with* Grigore, Gheorghe; Niculescu, Constantin P.; Păltineanu, Gavril; Popa, Nicolae; Vuza, Dan Tudor) ★ Structuri de ordine în analiza funcțională. Vol. 3. (Romanian) [Order structures in functional analysis. Vol. 3] **94j:46001**
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Grigore, Gheorghe *see* **Cristescu, Romulus; et al., 94j:46001**
Li, Yan Hong *see* **Wang, Ting Fu; et al., 94c:46062**
Niculescu, Constantin P. A note on $\ll_{M,\varphi}$-ideals. (English summary) **94d:46021**
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Păltineanu, Gavril *see* **Cristescu, Romulus; et al., 94j:46001**
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Puglisi, Mario A. (*with* Solimini, Sergio) Measurability in Archimedean Riesz spaces. (Italian. English summary) **94k:46016**
Shi, Zhong Rui *see* **Wang, Ting Fu; et al., 94c:46062**
Solimini, Sergio *see* **Puglisi, Mario A., 94k:46016**
Vuza, Dan Tudor *see* **Cristescu, Romulus; et al., 94j:46001**
Wang, Ting Fu (*with* Shi, Zhong Rui; Li, Yan Hong) On uniformly nonsquare points and nonsquare points of Orlicz spaces. (English summary) **94c:46062**
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46B42 Banach lattices [see also 46A40, 46B40]

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Ferrer-Llopis, Jésus (*with* Gregori, V.; Alegre Gil, Carmen) Quasi-uniform structures in linear lattices. (English summary) **94i:46025**
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Kalton, N. J. (*with* Wojtaszczyk, P.) On nonatomic Banach lattices and Hardy spaces. (English summary) **94i:46026**
Lavrič, Boris Operator characterizations of Banach lattices with p-superadditive or p-subadditive norm. (English and Serbo-Croatian summaries) **94i:46027**
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Margolis, Beatriz Acknowledgement of priority. Comment on: "Compact, convex sets in $\mathbf{R}^n$ and a new Banach lattice. I. Theory" [Numer. Funct. Anal. Optim. **11** (1990), no. 5-6, 555–576; MR 92d:46055a]. **94h:46032**
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Peirats, Vicente (*with* Wnuk, Witold) Copies of some classical Banach lattices in vector sequence lattices. (English summary) **94a:46025**
Sánchez H., José A. The positive Schur property in Banach lattices. **94j:46022**
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— (*with* Wickstead, A. W.) The regularity of order bounded operators into $C(K)$. II. **94h:47067**
Arendt, Wolfgang (*with* Voigt, Jürgen) Domination of uniformly continuous semigroups. (English summary) **94f:47042**
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Cristescu, Romulus (*with* Grigore, Gheorghe; Niculescu, Constantin P.; Păltineanu, Gavril; Popa, Nicolae; Vuza, Dan Tudor) ★ Structuri de ordine în analiza funcțională. Vol. 3. (Romanian) [Order structures in functional analysis. Vol. 3] **94j:46001**
Curbera, Guillermo P. When L^1 of a vector measure is an AL-space. (English summary) **94k:46070**
Daher, Mohamed Homéomorphismes uniformes entre les sphères unité des espaces d'interpolation. (English and French summaries) [Uniform homeomorphisms between unit spheres of interpolation spaces] **94h:46033**
Feldman, W. A. Sublinear operators between Banach lattices. (English summary) **94m:47073**
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46B45 Banach sequence spaces [see also 46A45]

Castillo, Jesús M. F. (*with* Sánchez Fernández, Fernando) Upper l_p-estimates in vector sequence spaces, with some applications. **94i:46029**
Doman, Małgorzata Weak uniform rotundity of Orlicz sequence spaces. (English summary) **94i:46030**
Domínguez Benavides, Tomás (*with* Rodríguez Álvarez, Ramón J.) Some geometric coefficients in Orlicz sequence spaces. **94b:46029**
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Heberlein, Krzysztof Uniformly non-$l_n^{(1)}$ Orlicz spaces of vector sequences. (English summary) **94c:46037**

Liang, Yan Zhang The set of smooth points of Orlicz sequence spaces $l_{(M)}$. (Chinese. English and Chinese summaries) **94c:46038**
Linde, Werner The number of points where a linear mapping from l_2^n into l_p^n attains its norm. (English summary) **94m:46031**
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Ma, Ji Gang *Ba* sequence spaces. (English summary) **94j:46023**
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Vakulenko, A. V. (*with* Dragilev, M. M.) Unconditional bases in complemented subspaces of Köthe spaces. (Russian) **94k:46039**
Wang, Bao Xiang (*with* Zhang, Yun Feng) The smooth points of Orlicz sequence spaces. (Chinese. English and Chinese summaries) **94c:46039**
Wu, Cong Xin (*with* Liu, Lei) Matrix transformations on some vector-valued sequence spaces. **94e:46041**
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Bakhtin, I. A. Fixed points of monotone order-extremal ultimately order-compact operators. (Russian) **94a:47091**
Başarir, Metin On some new sequence spaces. (English summary) **94e:46011**
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Gong, Zu Hui (*with* Wang, Ming Zhu) Isometric subspace problem for Orlicz spaces. (Chinese. English and Chinese summaries) **94b:46039**
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Liu, Yu Qiang The λ-point distributions on normed linear spaces. (Chinese. English and Chinese summaries) **94j:46019**
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46B70 Interpolation between normed linear spaces [see also 46M35]

Daher, Mohamed Homéomorphismes uniformes entre les sphères unité des espaces d'interpolation. (English and French summaries) [Uniform homeomorphisms between unit spheres of interpolation spaces] **94h:46033**

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Komorowski, Ryszard On constructing Banach spaces with no unconditional basis. (English summary) **94b:46015**
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— Continuous linear functionals and norm derivatives in real normed spaces. (English summary) **94f:46026**
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Godefroy, Gilles u-idéaux dans les espaces de Banach. [u-ideals in Banach spaces] (*see* **94j:00016**)
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— *see also* **McLaughlin, David P.; et al., 94g:46025**
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Andrianov, A. V. Analogues of the inequalities of A. Markov and S. Bernstein for polynomials in Banach spaces. (Russian. Russian summary) **94e:41026**
— Letter to the editors: "Analogues of the inequalities of A. Markov and S. Bernstein for polynomials in Banach spaces" [Mat. Zametki **52** (1992), no. 5, 13–21, 140; MR 94e:41026]. (Russian)
Argyros, Spiros A. (*with* Mercourakis, S.) On weakly Lindelöf Banach spaces. (English summary) **94i:46016**
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Reinov, O. I. Sur les opérateurs p-nucléaires entre espaces de Banach avec bases. (English and French summaries) [On p-nuclear operators in Banach spaces with bases] **94c:47032**
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Wu, Jun Convergence of sequences of projection operators in Banach spaces. (Chinese)
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Zhong, Huai Jie Unconditional convergence of series of operators. (Chinese. English and Chinese summaries) **94k:47005**
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46Cxx Inner product spaces and their generalizations, Hilbert spaces {For function spaces, see 46Exx.}

46C05 Hilbert and pre-Hilbert spaces: geometry and topology (including spaces with semidefinite inner product)

Dragomir, Sever Silvestru (*with* Pečarić, Josip E.; Sándor, J.) The Chebyshev inequality in pre-Hilbertian spaces. II. (Romanian summary) **94m:46033**
— (*with* Ionescu, Nicoleta M.) On an approximation property for continuous linear functionals in Banach spaces. (Romanian summary) **94f:46027**
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König, Hermann Some remarks on the Grothendieck inequality. (English summary) **94h:46035**
Odell, E. (*with* Schlumprecht, Thomas) The distortion of Hilbert space. (English summary) **94k:46044**
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Rivière, Alain Arcs de fuite dans les espaces de Hilbert. [Escape arcs in Hilbert spaces] **94d:46022**
Sándor, J. *see* **Dragomir, Sever Silvestru; et al., 94m:46033**
Schlumprecht, Thomas *see* **Odell, E., 94k:46044**
Teodorescu, D. I. Sur la distance d'un point à une variété linéaire dans un espace ponctuel préhilbertien. (Romanian summary) [Distance from a point to a linear manifold in a pre-Hilbert point space] (*see* **94j:00024**)
— Sur le volume d'un m-parallélépipède d'un espace ponctuel préhilbertien. (Romanian summary) [On the volume of an m-parallelepiped in a pre-Hilbert point space] (*see* **94j:00024**)
— Sur la distance entre deux variétés linéaires d'un espace ponctuel préhilbertien. (Romanian summary) [On the distance between two linear manifolds of a pre-Hilbert point space] (*see* **94j:00024**)

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Benedetto, John J. (*with* Heller, William) Irregular sampling and the theory of frames. I. (English summary) **94e:94006**
Defant, Andreas (*with* Floret, Klaus) Tensornorm techniques for the (DF)-space problem. (English summary) **94c:46142**
Dragomir, Sever Silvestru Continuous linear functionals and norm derivatives in real normed spaces. (English summary) **94f:46026**
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Gubreev, G. M. A class of bases of Hilbert spaces and the problem of similarity of Volterra operators. (Russian) **94h:47032**
— On a class of unconditional bases of Hilbert spaces and on a problem of the similarity of dissipative Volterra operators. (Russian. Russian summary) **94h:47033**
Heller, William *see* **Benedetto, John J., 94e:94006**
Mascioni, Vania On Banach spaces isomorphic to their duals. (English summary) **94b:46012**
Mustafin, M. A. On a problem of N. K. Bari on bases that are not Riesz bases. (Russian) **94c:42007**
Nikol'skiĭ, N. K. (*with* Vasyunin, V. I.) Quasi-orthogonal Hilbert space decompositions and estimates of univalent functions. II. **94i:30017**
Pták, Vlastimil (*with* Vrbová, Pavla) An abstract analogon of the de Branges-Rovnyak functional model. (English summary) **94c:47010**
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46C15 Characterizations of Hilbert spaces

Alsina, Claudi (*with* Guijarro Carranza, Piedad; Tomás, M. S.) A characterization of inner product spaces based on a property of height's transformation. **94m:46034**
Boussouis, Brahim Caractérisation d'un espace préhilbertien au moyen des orthogonalités généralisées. [Characterization of a pre-Hilbert space using generalized orthogonalities] **94a:46026**
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Lee, Jinsik Mok Biconcave-function characterisations of UMD and Hilbert spaces. (English summary) **94c:46044**
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Al-Rashed, A. M. Norm inequalities and characterizations of inner product spaces. (English summary) **94e:46028**
Defant, Martin (*with* Junge, Marius) Unconditional orthonormal systems. (English summary) **94h:46023**
Ebanks, B. R. (*with* Kannappan, P. L.; Sahoo, P. K.) A common generalization of functional equations characterizing normed and quasi-inner-product spaces. (English summary) **94a:39020**
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46C20 Spaces with indefinite inner product

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— (*with* Bolotnikov, V. A.; Dijksma, Aalt; de Snoo, Henk) On some operator colligations and associated reproducing kernel Hilbert spaces. (English summary) **94i:47018**
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Yang, Meehyea An existence of linear systems with given transfer function. **94c:47106**

46C50 Generalizations of inner products (semi-inner products, partial inner products, etc.)

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— (*with* Diminnie, C. R.; Freese, Raymond W.; Andalafte, E. Z.) Isosceles orthogonal triples in linear 2-normed spaces. (English summary) **94h:46022**
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46C99 None of the above, but in this section

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46Exx Linear function spaces and their duals [see also 30H05, 32E25, 46F05; for function algebras, see 46J10]

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Domański, Paweł Twisted Fréchet spaces of continuous functions. **94c:46045**
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Aragona, Jorge (*with* Biagioni, H. A.) Intrinsic definition of the Colombeau algebra of generalized functions. (Russian summary) **94d:46043**
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Zavalishchin, S. T. (*with* Sesekin, A. N.) ★ Импульсные процессы: модели и приложения. (Russian) [Impulse processes: models and applications] **94a:93001**

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46F05 Topological linear spaces of test functions, distributions and ultradistributions [see also 46E10, 46E35]

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— (*with* Pilipović, Stevan) Bounded subsets in spaces of distributions of L^p-growth. (English summary) **94m:46065**
Carmichael, R. D. (*with* Pilipović, Stevan) On the convolution and the Laplace transformation in the space of Beurling-Gevrey tempered ultradistributions. **94f:46045**
Castillo, Jesús M. F. (*with* Motos, Joaquín) Solution to a question of Grothendieck. **94e:46067**
Cho, Jonggyu (*with* Chung, Soon-Yeong; Kim, Dohan) Structure theorem of ultradistributions with compact support. **94e:46068**
Chung, Jaeyoung (*with* Chung, Soon-Yeong; Kim, Dohan) A characterization for Fourier hyperfunctions. (English summary) **94m:46066**
Chung, Soon-Yeong (*with* Kim, Dohan) Uniform majorization of ultradistributions and decomposition theorem. (English and Italian summaries) **94a:46046**
— (*with* Kim, Dohan) Representation of quasianalytic ultradistributions. (English summary) **94e:46069**
— *see also* **Cho, Jonggyu; et al., 94e:46068** *and* **Chung, Jaeyoung; et al., 94m:46066**
Damyanov, Blagovest P. On the local isomorphism of sheaves of generalized functions.
— On the sheaf of generalized functions over a C^∞-manifold. (English summary)
Dong, Chen (*with* Matsuzawa, Tadato) S-spaces of Gel'fand-Shilov and differential equations. **94m:46067**
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Hoskins, Roy Frank (*with* de Sousa Pinto, J.) Nonstandard treatments of new generalised functions. **94i:46049**
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Kovačević, Dušanka (*with* Pilipović, Stevan) On homogeneous generalized functions. **94b:46063**
Matsuzawa, Tadato *see* **Dong, Chen, 94m:46067**
Mikusiński, Piotr (*with* Taylor, Michael D.) Toward a unified theory of generalized functions: convergence. (English summary) **94i:46050**
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— *see also* **Kovačević, Dušanka, 94b:46063; Carmichael, R. D., 94f:46045** *and* **Abdullah, Saleh, 94m:46065**
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Stanković, Bogoljub Asymptotic almost periodic distributions, structural theorem. (English summary) **94i:46052**
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Evans, W. D. (*with* Harris, D. J.) Fractals, trees and the Neumann Laplacian. **94k:35218**
Franken, Uwe Continuous linear extension of ultradifferentiable functions of Beurling type. (English summary) **94m:46037**
Guererro, Juan Representation of distributions by nonstandard functions. (Spanish. Spanish summary) **94b:46066**
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Hasumi, Morisuke Toeplitz operators acting on generalized functions. (*see* **94d:46004**)
Howell, Kenneth B. A new theory for Fourier analysis. I. The space of test functions. (English summary) **94d:42012**
Hyman, Daniel M. A theory of discrete analysis. **94k:46001**
— Discrete analysis in commutative rings. **94k:46002**
Karunakaran, V. (*with* Vijayan, A.) Laplace transforms of generalized functions. **94i:46056**
Komatsu, Hikosaburo Operational calculus and semi-groups of operators. **94i:44006**
— Hyperfunctions, ultradistributions and microfunctions. **94m:32008**
Kovačević, Dušanka On the hypoellipticity of convolution equations in the ultradistribution spaces of L^q growth. (English summary) **94f:46050**
Ligęza, Jan Generalized solutions of ordinary linear differential equations in the Colombeau algebra. (English summary) **94f:34009**
Lopushans'ka, G. P. On the solution of boundary value problems for elliptic systems in a space of generalized functions. (Russian. Russian summary) **94c:35073**
Meise, Reinhold (*with* Taylor, B. A.; Vogt, Dietmar) Continuous linear right inverses for partial differential operators with constant coefficients and Phragmén-Lindelöf conditions. **94k:35064**
Naegele, Fabienne Théorèmes d'indices pour les équations q-différences-différentielles. (English and French summaries) [Index theorems for q-difference-differential equations] **94h:34021**
Nillsen, Rodney Banach spaces of functions and distributions characterized by singular integrals involving the Fourier transform. (English summary) **94c:46057**
Rodino, Luigi On the problem of the hypoellipticity of the linear partial differential equations. **94g:35054**
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Wiener, Joseph ★ Generalized solutions of functional-differential equations. **94m:34174**

46F10 Operations with distributions

Aguirre Téllez, Manuel (*with* Marinelli, Claudia) The series expansion of $\delta^{(k)}(r-c)$. (English summary) **94i:46053**
— (*with* Trione, Susana Elena) The multiplicative distributional product of $L^j\{(m^2+P\pm i0)^{-l-1+j}\}\cdot K^k\{\delta(x)\}$ and others. (English summary) **94m:46071**
— (*with* Trione, Susana Elena) The distributional multiplicative product $P_+^{-s/2}\cdot\delta(x)$. (English summary) **94m:46070**
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— A note on the product of distributions. **94c:46078**

Chaudhry, M. Aslam Cauchy representation of distributions and applications to probability. II. (English summary) **94f:46049**
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Fisher, Brian (*with* Özçağ, Emin; Kuan, Li Chen) A commutative neutrix convolution of distributions and the exchange formula. (English summary) **94e:46070**
— (*with* Cheng, Lin Zhi) The product of distributions on $\mathbf{R}^m$. (English summary) **94h:46059**
— The neutrix convolution product $x_+^{\lambda} \circledast x_+^{\mu}$. **94b:46065**
— (*with* Özçağ, Emin) Results on the commutative neutrix convolution product of distributions. (English summary) **94h:46060**
— (*with* Savaş, Ekrem; Pehlivan, Serpil; Özçağ, Emin) Results on the noncommutative neutrix product of distributions. (English summary) **94m:46072**
— *see also* **Kiliçman, Adem, 94h:46061**
Franken, Uwe (*with* Meise, Reinhold) Generalized Fourier expansions for zero-solutions of surjective convolution operators on $\mathcal{D}(\mathbf{R})$ and $\mathcal{D}'_{\omega}(\mathbf{R})$. **94a:46048**
Guerrero, Juan Representation of distributions by nonstandard functions. (Spanish. Spanish summary) **94h:46066**
Hayek Calil, Nácere (*with* Pérez-Acosta, F.) Asymptotic expressions for the Dirac delta function in terms of the Bessel-Clifford functions. (English summary) **94e:46071**
Huang, Cheng Gui ★ δ hanshu de xin lilun. (Chinese. Chinese summary) [A new theory of δ functions] **94a:46049**
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Kiliçman, Adem (*with* Fisher, Brian) Further results on the noncommutative neutrix product of distributions. (English summary) **94h:46061**
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Li, Bang He (*with* Li, Ya Qing) New generalized functions in nonstandard framework. (English summary) **94e:46072**
— (*with* Li, Ya Qing; Wu, Kang Ping) Set-valued derivatives of one-dimensional distributions. (English summary) **94d:46046**
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Mazel′, M. Kh. (*with* Radyno, N. Ya.) Algebras of new generalized periodic functions. (Russian. English and Russian summaries) **94c:46079**
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Nemzer, Dennis The product of a function and a Boehmian. (English summary) **94i:46054**
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Özçağ, Emin The neutrix convolution product $x_-^{-r} \ln x_- \circledast x_+^{\mu}$. (English and Turkish summaries) **94d:46047**
— *see also* **Fisher, Brian; et al., 94e:46070**; **94h:46060** *and* **94m:46072**
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Radyno, Ya. V. (*with* Ngo Phu Thanh; Ramadan, Sabra) The Fourier transformation in an algebra of new generalized functions. (Russian) **94c:46080**
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— *see also* **Pilipović, Stevan, 94e:46074**
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Batyrov, B. E. (*with* Burenkov, V. I.) Estimates for convolutions in Nikol′skiĭ-Besov spaces. (Russian) **94k:42034**
Berger, Fabienne Méthodes numériques de résolution d'équations aux dérivées partielles non linéaires contenant des "produits de distributions"; hydrodynamique et élastoplasticité. (English and French summaries) [Numerical methods for the solution of nonlinear partial differential equations involving "products of distributions"; hydrodynamics and elastoplasticity] **94b:65112**
— (*with* Colombeau, Jean-François; Moussaoui, Mohand) Solutions mesures de Dirac de systèmes de lois de conservation et applications numériques. (English and French summaries) [Dirac measure solutions of systems of conservation laws and numerical applications] **94e:35088**
Burenkov, V. I. *see* **Batyrov, B. E., 94k:42034**
Carmichael, R. D. (*with* Pilipović, Stevan) On the convolution and the Laplace transformation in the space of Beurling-Gevrey tempered ultradistributions. **94f:46045**
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Colombeau, Jean-François (*with* Heibig, Arnaud; Oberguggenberger, Michael) Le problème de Cauchy dans un espace de fonctions généralisées. I. (English and French summaries) [The Cauchy problem in a space of generalized functions. I] **94m:35048**
— *see also* **Berger, Fabienne; et al., 94e:35088**
Gabardo, Jean-Pierre Extension of radial positive-definite distributions in $\mathbf{R}^n$ and maximum entropy. (English summary) **94i:42021**
González Vieli, Francisco Javier Unicité dans $\mathbf{R}^n$. [Uniqueness in $\mathbf{R}^n$] **94j:42024**
Gramchev, T. Le problème de Cauchy pour des systèmes hyperboliques non-linéaires avec données initiales distributions. [The Cauchy problem for nonlinear hyperbolic systems with given initial distributions] **94d:35099**
Heibig, Arnaud *see* **Colombeau, Jean-François; et al., 94m:35048**
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Norvidas, S. Differential inequalities in Banach spaces of entire functions. II. (Russian. Lithuanian summary) **94k:46048**
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46F12 Integral transforms in distribution spaces [see also 42–XX, 44–XX]

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Baier, A. (*with* Glaeske, H.-J.) The Laplace transformation on certain spaces of generalized functions. (English summary) **94h:46064**
Betancor, Jorge J. (*with* Marrero, I.) Multipliers of Hankel transformable generalized functions. (English summary) **94f:46051**
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Miller, John Boris Generalized functions for the Laplace transform and universal approximants. (English summary) **94h:46065**
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Pilipović, Stevan (*with* Stanković, Bogoljub) Wiener Tauberian theorems for distributions. (English summary) **94c:46081**
Schmeelk, John Hankel transforms in generalized Fock spaces. (English summary) **94m:46074**
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Agrawal, N. K. On Whittaker transform of generalized functions. (English and Italian summaries) **94j:44007**
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Batyrov, B. E. (*with* Burenkov, V. I.) Estimates for convolutions in Nikol′skiĭ-Besov spaces. (Russian) **94k:42034**
Burenkov, V. I. *see* **Batyrov, B. E., 94k:42034**
Carmichael, R. D. (*with* Pilipović, Stevan) On the convolution and the Laplace transformation in the space of Beurling-Gevrey tempered ultradistributions. **94f:46045**
Colzani, Leonardo (*with* Travaglini, Giancarlo; Vignati, Marco) Bochner-Riesz means of functions in weak-L^p. (English summary) **94h:42022**
Durán Guardeño, Antonio J. Laguerre expansions of Gel′fand-Shilov spaces. (English summary) **94h:46057**
González Rodríguez, Benito *see* **Hayek Calil, Nácere, 94k:44007**
González Rodríguez, José Manuel *see* **Nishimoto, Katsuyuki, 94k:44005**
Hayek Calil, Nácere (*with* González Rodríguez, Benito) On the distributional index ${}_2F_1$-transform. (English summary) **94k:44007**
Howell, Kenneth B. A new theory for Fourier analysis. I. The space of test functions. (English summary) **94d:42012**
— A new theory for Fourier analysis. II. Further analysis on the space of test functions. (English summary) **94f:46046**
— A new theory for Fourier analysis. III. Basic analysis on the dual. (English summary) **94f:46047**
Kanwal, Ram P. Interplay between singularities, asymptotics and generalized functions. (English summary) **94h:46067**
Koh, Eusebio L. (*with* Kuan, Li Chen) On the distributions δ^k and $(\delta')^k$. (English summary) **94h:46062**
Krabbe, Gregers The initial value problem for singular systems of differential equations. **94m:34021**
Kuan, Li Chen *see* **Koh, Eusebio L., 94h:46062**
Łysik, Grzegorz The Taylor transformation of analytic functionals with nonbounded carrier. (English summary) **94k:46080**
Mahato, Anil Kumar (*with* Saksena, K. M.) An integral transform of generalized functions. I. (English summary) **94d:44001**

Mazel', M. Kh. (*with* Radyno, N. Ya.) Algebras of new generalized periodic functions. (Russian. English and Russian summaries) **94c:46079**
Mikusiński, Piotr (*with* Zayed, Ahmed I.) The Radon transform of Boehmians. **94e:44003**
More, S. V. Mellin transform of Hankel transform of distribution of compact support. **94g:44004**
Ngo Phu Thanh *see* **Radyno, Ya. V.; et al., 94c:46080**
Nishimoto, Katsuyuki (*with* González Rodríguez, José Manuel) A Watson type integral transformation of test functions of exponential growth and negative type. (English summary) **94k:44005**
O'Farrell, Anthony G. T-invariance. (English summary) **94d:46045**
Pilipović, Stevan Multipliers, convolutors and hypoelliptic convolutors for tempered ultradistributions. **94h:46058**
— *see also* **Carmichael, R. D., 94f:46045**
Radyno, N. Ya. *see* **Mazel', M. Kh., 94c:46079**
Radyno, Ya. V. (*with* Ngo Phu Thanh; Ramadan, Sabra) The Fourier transformation in an algebra of new generalized functions. (Russian) **94c:46080**
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Saitoh, Saburou The Hilbert spaces of Szegő type and Fourier-Laplace transforms on $\mathbf{R}^n$. **94h:46040**
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Szmydt, Zofia (*with* Ziemian, Bogdan) ★ The Mellin transformation and Fuchsian type partial differential equations. **94b:46064**
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— *see also* **Szmydt, Zofia, 94b:46064**

46F15 Hyperfunctions, analytic functionals [see also 32A25, 32A45, 32C35, 58G07]

Chung, Soon-Yeong (*with* Kim, Dohan; Kim, Sung Ki) Structure of the extended Fourier hyperfunctions. **94m:46075**
— *see also* **Kim, Kwang Whoi; et al., 94m:46076**
Kim, Dohan *see* **Chung, Soon-Yeong; et al., 94m:46075** *and* **Kim, Kwang Whoi; et al., 94m:46076**
Kim, Kwang Whoi (*with* Chung, Soon-Yeong; Kim, Dohan) Fourier hyperfunctions as the boundary values of smooth solutions of heat equations. (English summary) **94m:46076**
Kim, Sung Ki *see* **Chung, Soon-Yeong; et al., 94m:46075**
Komatsu, Hikosaburo An elementary theory of hyperfunctions and microfunctions. **94b:46067**
Lysik, Grzegorz The Taylor transformation of analytic functionals with nonbounded carrier. (English summary) **94k:46080**
Okada, Yasunori Solvability of convolution operators. (English summary) **94m:46077**
Supper, Raphaële Quelques applications liées aux fonctionnelles analytiques. [Some applications associated with analytic functionals] **94k:46081**
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Berenstein, Carlos A. (*with* Kawai, Takahiro; Struppa, Daniele C.) Interpolation theorems in several complex variables and applications. **94h:32016**
Bros, J. (*with* Viano, G. A.) Connection between the algebra of kernels on the sphere and the Volterra algebra on the one-sheeted hyperboloid: holomorphic "perikernels". (French summary) **94a:32008**
Chung, Jaeyoung (*with* Chung, Soon-Yeong; Kim, Dohan) A characterization for Fourier hyperfunctions. (English summary) **94m:46066**
Chung, Soon-Yeong *see* **Chung, Jaeyoung; et al., 94m:46066**
Gorbachuk, V. I. On the solution of an operator-differential equation with singularities. (Ukrainian. Ukrainian summary) **94d:34063**
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Komatsu, Hikosaburo Operational calculus and semi-groups of operators. **94i:44006**
— Hyperfunctions, ultradistributions and microfunctions. **94m:32008**
Krivosheev, A. S. Indicators of entire functions and the continuation of solutions of a homogeneous convolution equation. (Russian. Russian summary) **94k:32002**
Langenbruch, Michael Surjectivity of partial differential operators in classes of ultradifferentiable functions of Roumieu type. **94h:35034**
Li, Bang He (*with* Li, Ya Qing) New generalized functions in nonstandard framework. (English summary) **94e:46072**
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Mahato, Anil Kumar On a distributional Meijer-Bessel transform. (English summary) **94f:44006**
Solov'ev, M. A. Beyond the theory of hyperfunctions. **94m:46069**
Struppa, Daniele C. *see* **Berenstein, Carlos A.; et al., 94h:32016**
Uchida, Motoo (*with* Zampieri, Giuseppe) Hyperfunctions with real analytic parameters and continuation of solutions of systems of partial differential equations. (English summary) **94c:35013**
Viano, G. A. *see* **Bros, J., 94a:32008**
Zampieri, Giuseppe *see* **Uchida, Motoo, 94c:35013**
Zelinskii, Yu. B. *see* **Znamenskii, S. V., 94c:32001**
Znamenskii, S. V. (*with* Zelinskii, Yu. B.) When the intersection of the supports of an analytic functional is a support. (Russian) **94c:32001**

46F20 Distributions and ultradistributions as boundary values of analytic functions [see also 30D40, 30E25, 32A40]

Carmichael, R. D. (*with* Pathak, R. S.; Pilipović, Stevan) Ultradistributional boundary values of holomorphic functions. (English summary) **94f:46053**
Koh, Eusebio L. (*with* Li, C. K.) On defining the generalized functions $\delta^{\alpha}(z)$ and $\delta^{\alpha}(x)$. (English summary) **94e:46075**
Li, C. K. *see* **Koh, Eusebio L., 94e:46075**
Pathak, R. S. *see* **Carmichael, R. D.; et al., 94f:46053**
Pilipović, Stevan *see* **Carmichael, R. D.; et al., 94f:46053**

Items with secondary classifications in 46F20

Chen, Tian Ping (*with* Zhang, De Zhi) Local L^p estimate for the solution of $\overline{\partial}$-Neumann problem over $D_t = \{(w,z)\colon \operatorname{Re} w \le |z^m - tw|^2/m\}$. (English summary) **94k:35214**
Chung, Soon-Yeong (*with* Kim, Dohan) Representation of quasianalytic ultradistributions. (English summary) **94e:46069**
— *see also* **Kim, Kwang Whoi; et al., 94m:46076**
Jonas, Peter A class of operator-valued meromorphic functions on the unit disc. (English summary) **94a:47018**
Kim, Dohan *see* **Chung, Soon-Yeong, 94e:46069** *and* **Kim, Kwang Whoi; et al., 94m:46076**
Kim, Kwang Whoi (*with* Chung, Soon-Yeong; Kim, Dohan) Fourier hyperfunctions as the boundary values of smooth solutions of heat equations. (English summary) **94m:46076**
Komatsu, Hikosaburo Hyperfunctions, ultradistributions and microfunctions. **94m:32008**
Walter, Gilbert G. Analytic representations of tempered distributions using wavelets. **94g:42060**
Zhang, De Zhi *see* **Chen, Tian Ping, 94k:35214**

46F25 Distributions on infinite-dimensional spaces [see also 58C35]

Items with secondary classifications in 46F25

Kuo, Hui-Hsiung Fourier-Mehler transforms in white noise analysis. **94a:60060**
Obata, Nobuaki An analytic characterization of symbols of operators on white noise functionals. **94m:60087**
— White noise delta functions and continuous version theorem. **94d:60060**
Ren, Jia Gang Analytic functionals on the Wiener space. (English summary) **94a:28028**
Schmeelk, John Hankel transforms in generalized Fock spaces. (English summary) **94m:46074**
Yan, Jia An Notes on the Wiener semigroup and renormalization. (English summary) **94f:60086**
— An elementary proof of a theorem of Lee.

46F99 None of the above, but in this section

Choquet-Bruhat, Yvonne Applications of generalized functions to shocks and discrete models. **94f:46054**
Colombeau, Jean-François ★ Multiplication of distributions. **94h:46066**
Estrada, Ricardo (*with* Kanwal, Ram P.) Asymptotic separation of variables. (English summary) **94g:46045**
Kanwal, Ram P. Interplay between singularities, asymptotics and generalized functions. (English summary) **94h:46067**
— *see also* **Estrada, Ricardo, 94g:46045**

Items with secondary classifications in 46F99

Ahuja, Gopi On the product of an arbitrary function and the fractional derivative of Dirac delta distribution. **94c:46077**
— A note on the product of distributions. **94c:46078**
Aragona, Jorge Some results for the $\overline{\partial}$ operator on generalized differential forms. **94k:32021**
(Cheng, Min De) *see* **Huang, Cheng Gui, 94g:00002**
Chung, Soon-Yeong (*with* Kim, Dohan; Kim, Sung Ki) Solvability of Mizohota [Mizohata] and Lewy operators. (English summary) **94d:35003**
Cioranescu, Ioana On a class of C-regularized semigroups. (English summary) **94j:47061**
Constantinescu, F. Perturbation expansion for distributions on surfaces, Lagrange-Bürmann theorem and applications to mechanics. (*see* **94d:46004**)
Diallo, Seydou Nourou (*with* Sargos, Patrick) Sur l'ordre de la distribution $1/f$. (English summary) [On the order of the distribution $1/f$] **94h:58026**
Fainberg, V. Ya. (*with* Solov'ev, M. A.) Nonlocalizability and asymptotic commutativity. (English and Russian summaries) **94g:81118**
Guo, Kang Hui A remark on the spectral synthesis property for hypersurfaces of $\mathbf{R}^n$. **94g:43004**
Hoskins, Roy Frank (*with* de Sousa Pinto, J.) Nonstandard treatments of new generalised functions. **94i:46049**
Huang, Cheng Gui ★ Liang xiang weijifenxue. (Chinese. Chinese summary) [Two-phase calculus] **94g:00002**
Inoue, Atsushi Foundation of real analysis on the superspace $\mathfrak{R}^{m|n}$ over the ∞-dimensional Fréchet-Grassmann algebra. (English summary) **94d:58021**
Kim, Dohan *see* **Chung, Soon-Yeong; et al., 94d:35003**
Kim, Sung Ki *see* **Chung, Soon-Yeong; et al., 94d:35003**
Pelant, Martin (*with* Tvrdý, Milan) Linear distributional differential equations in the space of regulated functions. (English summary) **94k:34014**
Prévost, Marc Dirac masses detection in a density on $[-1,1]$ from its moments. Applications to singularities of a function. (English summary) **94m:41049**
Saigo, Megumi *see* **Vũ Kim Tuân, 94j:47080**
Sargos, Patrick *see* **Diallo, Seydou Nourou, 94h:58026**
Schmeelk, John (*with* Takači, Arpad) Ultra annihilation and creation operators. **94e:46136**
Solov'ev, M. A. *see* **Fainberg, V. Ya., 94g:81118**
de Sousa Pinto, J. *see* **Hoskins, Roy Frank, 94i:46049**

Strasburger, Aleksander Covariant functions and distributions and reduction of invariant systems of differential operators on Euclidean spaces. **94a:22021**
Takači, Arpad *see* **Schmeelk, John, 94e:46136**
Tiwari, A. K. Distributional form invariant linear systems. (*see* **94d:46004**)
Tvrdý, Milan *see* **Pelant, Martin, 94k:34014**
Vũ Kim Tuân (*with* Saigo, Megumi) Multidimensional modified fractional calculus operators. (English summary) **94j:47080**
Walter, Gilbert G. Analytic representations of tempered distributions using wavelets. **94g:42060**
(Zhang, Jin Wen) *see* **Huang, Cheng Gui, 94g:00002**

46Gxx Measures, integration, derivative, holomorphy (all involving infinite-dimensional spaces) {For nonlinear functional analysis, see 47Hxx, 58–XX, especially 58Cxx.}

Phelps, Robert R. ★ Convex functions, monotone operators and differentiability. **94f:46055**

46G05 Derivatives [see also 58C20, 58C25]

Benoist, Joël Convergence de la dérivée de la régularisée Lasry-Lions. (English and French summaries) [Convergence of the derivative of the Lasry-Lions regularization] **94c:46082**
Borwein, Jonathan M. Differentiability properties of convex, of Lipschitz, and of semicontinuous mappings on Banach spaces. **94h:46068**
— (*with* Fabián, M.) On generic second-order Gateaux differentiability. **94m:46078**
— (*with* Noll, Dominikus) Second order differentiability of convex functions in Banach spaces. **94e:46076**
Cheng, Li Xin (*with* Li, Jian Hua[1]; Nan, Chao Xun) Errata to: "The Gateaux and Fréchet differentiability of continuous gauge functions on a Banach space" [Adv. in Math. (China) **20** (1991), no. 3, 326–334; MR 92k:46073]. (Chinese)
— *see also* **Wu, Cong Xin, 94j:46046**
Eyland, Roger (*with* Sharp, Bernice) The Fréchet differentiability of convex functions on $C(S)$. **94c:46083**
Fabián, M. *see* **Borwein, Jonathan M., 94m:46078**
Li, Jian Hua[1] *see* **Cheng, Li Xin; et al.**
Nan, Chao Xun *see* **Cheng, Li Xin; et al.**
Ndakbo, Victor Une formule pour la dérivée en termes des différences finies. [A formula for the derivative in terms of finite differences] **94d:46048**
Noll, Dominikus *see* **Borwein, Jonathan M., 94e:46076**
Orlov, I. V. Differential calculus in infinite-dimensional spaces. (Russian) **94f:46056**
Rolewicz, Stefan Generalization of Asplund inequalities on Lipschitz functions. **94f:46057**
Schmets, Jean (*with* Valdivia, Manuel) Domains of analyticity in real normed spaces. (English summary) **94c:46084**
Serovaiskii, S. Ya. Extended differentiability of an implicit function in spaces without a norm. (Russian) **94d:46049**
Sharp, Bernice *see* **Eyland, Roger, 94c:46083**
Száz, Árpád Unique Fréchet derivatives at some nonisolated points. **94c:46085**
Valdivia, Manuel *see* **Schmets, Jean, 94c:46084**
Wu, Cong Xin (*with* Cheng, Li Xin) A note on the differentiability of convex functions. (English summary) **94j:46046**

Items with secondary classifications in 46G05

Attouch, Hédy (*with* Beer, Gerald) On the convergence of subdifferentials of convex functions. **94b:49018**
Aubin, Jean-Pierre Mutational equations in metric spaces. (English summary) **94h:34020**
Beer, Gerald *see* **Attouch, Hédy, 94b:49018**
Biström, Peter (*with* Lindström, Mikael) Homomorphisms on $C^\infty(E)$ and C^∞-bounding sets. (English summary) **94k:46073**
Clarke, Frank H. (*with* Stern, Ronald Jay; Wolenski, P. R.) Subgradient criteria for monotonicity, the Lipschitz condition, and convexity. (English summary) **94j:49018**
Deville, Robert (*with* Godefroy, Gilles; Zizler, Václav) ★ Smoothness and renormings in Banach spaces. (English summary) **94d:46012**
Dudley, Richard M. Fréchet differentiability, p-variation and uniform Donsker classes. (English summary) **94a:60004**
Giles, John R. (*with* Sciffer, Scott) Locally Lipschitz functions are generically pseudo-regular on separable Banach spaces. (English summary) **94a:58022**
— (*with* Moors, Warren B.) The implications for differentiability of a weak index of noncompactness. (English summary) **94f:47060**
— (*with* Moors, Warren B.) A continuity property related to Kuratowski's index of noncompactness, its relevance to the drop property, and its implications for differentiability theory. (English summary) **94m:46022**
Godefroy, Gilles *see* **Deville, Robert; et al., 94d:46012**
Hida, Takeyuki (*with* Obata, Nobuaki; Saitô, Kimiaki) Infinite-dimensional rotations and Laplacians in terms of white noise calculus. **94a:60119**
Ioffe, Alexandre D. Dual representation of the lower second order epi-derivative of a composite function. **94b:49027**
Jeyakumar, V. *see* **Yang, Xiao Qi, 94g:49043**
Jiang, Yu Shu *see* **Yin, Ri Xin**
Kriegl, Andreas (*with* Michor, Peter W.) Aspects of the theory of infinite-dimensional manifolds. (English summary) **94j:58015**
Kusraev, A. G. (*with* Kutateladze, S. S.) ★ Субдифференциалы. (Russian. Russian summary) [Subdifferentials] **94b:49004**
Kutateladze, S. S. *see* **Kusraev, A. G., 94b:49004**
Lan, Kun Quan Fixed-point theorems and generalized derivatives for set-valued mappings. (Chinese. English and Chinese summaries) **94i:47092**
Lindström, Mikael *see* **Biström, Peter, 94k:46073**
Linke, Yu. È. Sublinear operators and Banach spaces with a weak $\mathscr{R}$-analytic topology. (Russian) **94k:47102**
Michor, Peter W. *see* **Kriegl, Andreas, 94j:58015**
Moors, Warren B. *see* **Giles, John R., 94f:47060** *and* **94m:46022**
Nakanishi, Shizu Differential calculus in (CUN) spaces. I. (English summary) **94a:46012**
Nel, Louis Daniel[1] Differential calculus founded on an isomorphism. (English summary) **94h:58023**
Obata, Nobuaki *see* **Hida, Takeyuki; et al., 94a:60119**
Ralph, Daniel A chain rule for nonsmooth composite functions via minimisation. (English summary) **94m:49026**
Rolewicz, Stefan On some differentiability problems. **94h:49034**
Ruan, Guo Zhen A kind of generalized second-order derivatives and second-order subdifferentials. (Chinese. English and Chinese summaries) **94g:49039**
Saitô, Kimiaki *see* **Hida, Takeyuki; et al., 94a:60119**
Sciffer, Scott *see* **Giles, John R., 94a:58022**
Serovaiskiĭ, S. Ya. Differentiation of the inverse function in nonnormed spaces. (Russian) **94m:58022**
Shkarin, S. A. Points of discontinuity of Gateaux-differentiable mappings. (Russian. Russian summary) **94a:58023**
Slezák, B. On the inverse function theorem in F-spaces. **94e:46080**
Stern, Ronald Jay *see* **Clarke, Frank H.; et al., 94j:49018**
Wang, Yun Tong[1] Approximate subdifferentials and nonsmooth analysis in finite dimensions. (English summary) **94a:49012**
Weckesser, Volkmar The subdifferential in Banach spaces. **94j:49025**
Wolenski, P. R. *see* **Clarke, Frank H.; et al., 94j:49018**
Yan, Yue *see* **Zhang, Xing Hai, 94c:26005**
Yang, Shu Lang Some results on multiple fixed-point problems for quasisemidifferentiable mappings. (Chinese. English and Chinese summaries) **94b:47080**
Yang, Xiao Qi (*with* Jeyakumar, V.) Generalized second-order directional derivatives and optimization with $C^{1,1}$ functions. (English summary) **94g:49043**
Yin, Ri Xin (*with* Jiang, Yu Shu) Derivatives of vector functions in finite-dimensional quasinormed linear spaces. (Chinese. English and Chinese summaries)
Zhan, Xin Shan Quasimean value formulas in Banach spaces. (Chinese. English and Chinese summaries) **94c:26004**
Zhang, Xing Hai (*with* Yan, Yue) Generalized mean value formulas for upper [lower] derivatives in an abstract space. (Chinese. English and Chinese summaries) **94c:26005**
Zizler, Václav *see* **Deville, Robert; et al., 94d:46012**

46G10 Vector-valued measures and integration [see also 28Bxx, 46B22]

Chakrabarti, Sadasiv (*with* Lahiri, B. K.) Differentiation of vector lattice-valued set function in a topological group. (English summary) **94i:46058**
Fremlin, David H. (*with* Mendoza, José) On the integration of vector-valued functions. **94k:46083**
Kadets, V. M. (*with* Popov, M. M.) On the Liapunov convexity theorem with applications to sign-embeddings. (English and Ukrainian summaries) **94d:46050**
Lahiri, B. K. *see* **Chakrabarti, Sadasiv, 94i:46058**
Ma, Ming *see* **Wu, Cong Xin, 94j:46047**
Mendoza, José *see* **Fremlin, David H., 94k:46083**
Musial, Kazimierz Topics in the theory of Pettis integration. **94k:46084**
Popov, M. M. *see* **Kadets, V. M., 94d:46050**
Smolyanov, O. G. (*with* von Weizsäcker, H.) Differentiable families of measures. (English summary) **94m:46079**
von Weizsäcker, H. *see* **Smolyanov, O. G., 94m:46079**
Wu, Cong Xin (*with* Ma, Ming) Bounded variation of abstract function whose value is in a Banach lattice. (English summary) **94j:46047**

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Aguayo, José (*with* Sánchez H., José A.) Perfect measures and the Dunford-Pettis property. (English summary) **94b:46032**
Alencar, Raymundo An application of Singer's theorem to homogeneous polynomials. (English summary) **94c:46087**
Ballvé, Ma. E. (*with* Jiménez Guerra, P.) On the integration in convergence spaces. (English and Italian summaries) **94c:28012**
Basile, Achille Finitely additive correspondences. (English summary) **94i:28009**
Besbes, Mourad Points fixes et théorèmes ergodiques dans les espaces $L^1(E)$. (English summary) [Fixed points and ergodic theorems in $L^1(E)$-spaces] **94f:47009**
Brüning, Erwin A. K. Uniqueness in moment-problems over nuclear spaces and weak convergence of probability measures. (English summary) **94k:28024**
Candeloro, Domenico (*with* Martellotti, Anna) Radon-Nikodým theorems for vector-valued finitely additive measures. (English and Italian summaries) **94d:28013**
Cao, Sergio S. Henstock lemma in finite-dimensional Banach spaces. (English summary) **94c:26012**
Curbera, Guillermo P. When L^1 of a vector measure is an AL-space. (English summary) **94k:46070**
De Lucia, Paolo (*with* Dvurečenskij, Anatolij) Decompositions of Riesz space-valued measures on orthomodular posets. (English summary) **94k:28019**
Dilworth, S. J. (*with* Girardi, Maria) Bochner vs. Pettis norm: examples and results. (English summary) **94d:46040**
Drewnowski, Lech (*with* Emmanuele, Giovanni) The problem of complementability for some spaces of vector measures of bounded variation with values in Banach spaces containing copies of c_0. (English summary) **94c:46072**
Dvurečenskij, Anatolij *see* **De Lucia, Paolo, 94k:28019**
Dzhgarkava, D. T. *see* **Lomadze, N. D., 94j:46037**
Emmanuele, Giovanni Precompactness in the space of Pettis integrable functions. **94k:28015**
— *see also* **Drewnowski, Lech, 94c:46072**
Ferrando, J. C. Ultrabornological Bochner integrable function spaces. (English summary) **94f:46039**
Girardi, Maria *see* **Dilworth, S. J., 94d:46040**

Gouweleeuw, José M. A generalization of Lyapounov's theorem. (English summary) **94k:28016**
Jefferies, Brian R. F. (*with* Ricker, Werner J.) Integration with respect to vector valued Radon polymeasures. (English summary) **94k:47027**
Jiménez Guerra, P. *see* **Ballvé, Ma. E., 94c:28012**
Kadets, V. M. (*with* Schechtman, Gideon) Lyapunov's theorem for l_p-valued measures. (Russian. Russian summary) **94a:28021**
Lê bá Long Vector-valued fuzzy measures on fuzzy quantum posets. (English summary) **94j:81020**
Lee, Peng Yee *see* **Rey, Reynaldo M., 94k:46072**
Lomadze, N. D. (*with* Dzhgarkava, D. T.) An isometric integral representation of linear operators in the space of rectangularly-discontinuous functions of two variables. (Russian. English and Georgian summaries) **94j:46037**
Mandrekar, V. (*with* Richard, Philip H.) Factorization through Hilbert space and the dilation of $L(X, Y)$-valued measures. (English summary) **94m:60008**
Martellotti, Anna *see* **Candeloro, Domenico, 94d:28013**
Matsuda, Minoru A characterization of non-Pettis sets in terms of martingales. (English summary) **94a:46024**
Musiał, Kazimierz A Radon-Nikodým theorem for the Bartle-Dunford-Schwartz integral. **94g:28016**
Okada, Susumu (*with* Ricker, Werner J.) Nonweak compactness of the integration map for vector measures. (English summary) **94d:28014**
Papageorgiou, Nikolaos S. On the properties of multimeasures with values in a Banach space. (English summary) **94f:28017**
Podgaev, A. G. On the relative compactness of a set of abstract functions in a scale of Banach spaces. (Russian. English and Russian summaries) **94e:46022**
Puglisi, Mario A. (*with* Solimini, Sergio) Measurability in Archimedean Riesz spaces. (Italian. English summary) **94k:46016**
Rey, Reynaldo M. (*with* Lee, Peng Yee) A representation theorem for the space of Henstock-Bochner integrable functions. (English summary) **94k:46072**
Richard, Philip H. *see* **Mandrekar, V., 94m:60008**
Ricker, Werner J. *see* **Okada, Susumu, 94d:28014** *and* **Jefferies, Brian R. F., 94k:47027**
Riečan, Beloslav (*with* Vrábelová, Marta) On integration with respect to operator valued measures in Riesz spaces. (English summary) **94i:28008**
Sánchez H., José A. *see* **Aguayo, José, 94b:46032**
Schechtman, Gideon *see* **Kadets, V. M., 94a:28021**
Singh, Ajit Iqbal (*with* Vasudeva, H. L.) Multipliers for some spaces of vector-valued functions. (English summary) **94e:43005**
Solimini, Sergio *see* **Puglisi, Mario A., 94k:46016**
Vasudeva, H. L. *see* **Singh, Ajit Iqbal, 94e:43005**
Vrábelová, Marta *see* **Riečan, Beloslav, 94i:28008**
Wang, Chong Hu Riemann integration in some Banach spaces. (Chinese summary) **94k:28017**
Zhang, Chuan Yi Integration of vector-valued pseudo-almost periodic functions. (English summary) **94m:43010**

46G12 Measures and integration on abstract linear spaces [see also 28C20]

Arai, Asao (*with* Mitoma, Itaru) Comparison and nuclearity of spaces of differential forms on topological vector spaces. (English summary) **94a:46051**
Dặng Hùng Thắng Vector symmetric random measures and random integrals. **94d:46051**
El-Shazly, M. S. *see* **Okb El-Bab, A. S., 94d:46052**
Kondracki, Witold (*with* Kozak, Michal) An analogue of the Minlos theorem in the case of the full Laplace transform of a measure. (English summary) **94a:46052**
Kozak, Michał *see* **Kondracki, Witold, 94a:46052**
Mitoma, Itaru *see* **Arai, Asao, 94a:46051**
Okb El-Bab, A. S. (*with* El-Shazly, M. S.) Negative-definite functions on Hilbert spaces. (English summary) **94d:46052**
Rybakov, V. I. Functionals that preserve the resultant. (Russian. Russian summary) **94k:46085**
Shavgulidze, E. T. *see* **Smolyanov, O. G., 94c:46086**
Smolyanov, O. G. (*with* Shavgulidze, E. T.) The support of a symplectic Feynman measure and the uncertainty principle. (Russian) **94c:46086**
Vladimirskiĭ, Yu. N. On sequential conditions for a cylindrical measure to be countably additive. (English summary) **94a:46053**

Items with secondary classifications in 46G12

Aida, Shigeki Certain gradient flows and submanifolds in Wiener spaces. (English summary) **94g:60106**
Albeverio, Sergio (*with* Brzeźniak, Zdzisław) Finite-dimensional approximation approach to oscillatory integrals and stationary phase in infinite dimensions. (English summary) **94g:58031**
Bell, Denis R. Transformations of measure on an infinite-dimensional vector space. **94g:60107**
Bendikov, A. D. Some properties of Gaussian measures and potentials in martingale spaces with mixed norm. (English summary) **94c:60008**
Brzeźniak, Zdzisław *see* **Albeverio, Sergio, 94g:58031**
Capiński, Marek (*with* Cutland, Nigel J.) The Euler equation: a uniform nonstandard construction of a global flow, invariant measures and statistical solutions. (English summary) **94k:03083**
Cutland, Nigel J. *see* **Capiński, Marek, 94k:03083**
De Santis, Alberto (*with* Gandolfi, Alberto; Germani, Alfredo; Tardelli, P.) Polynomial approximation for a class of physical random variables. **94b:60010**
Dvurečenskij, Anatolij Regular charges and completeness of inner product spaces. (English summary) **94i:46033**
Feyel, Denis (*with* de La Pradelle, Arnaud) Hausdorff measures on the Wiener space. (English summary) **94m:28013**
Flytzanis, E. Linear invariance of Gaussian measures in Hilbert spaces. (*see* **94j:60001**)
Gallamov, M. M. Wiener measures and some problems of approximation in Banach spaces. (Russian. English summary) **94c:28017**
Gandolfi, Alberto *see* **De Santis, Alberto; et al., 94b:60010**
Germani, Alfredo *see* **De Santis, Alberto; et al., 94b:60010**
Hida, Takeyuki (*with* Obata, Nobuaki; Saitô, Kimiaki) Infinite-dimensional rotations and Laplacians in terms of white noise calculus. **94a:60119**
Johnson, Gerald W. (*with* Kallianpur, G.) Homogeneous chaos, p-forms, scaling and the Feynman integral. **94f:60056**
Kallianpur, G. *see* **Johnson, Gerald W., 94f:60056**
Khafizov, M. U. The derivative of a measure has unbounded variation. (Russian) **94k:28026**
de La Pradelle, Arnaud *see* **Feyel, Denis, 94m:28013**
Matveichuk, M. S. Is every measure bounded in an infinite-dimensional J-space? (Russian) **94g:46076**
Mushtari, D. Kh. Topologies on the space of σ-additive cylindrical probabilities. (English summary) **94f:60005**
Obata, Nobuaki White noise delta functions and continuous version theorem. **94d:60060**
— *see also* **Hida, Takeyuki; et al., 94a:60119**
Ren, Jia Gang Analytic functionals on the Wiener space. (English summary) **94a:28028**
Saitô, Kimiaki *see* **Hida, Takeyuki; et al., 94a:60119**
Satô, Hiroshi[1] Gaussian measures on locally convex spaces and related topics. **94b:60009**
Shigekawa, Ichirô Sobolev spaces over the Wiener space based on an Ornstein-Uhlenbeck operator. **94b:60066**
Talagrand, Michel New Gaussian estimates for enlarged balls. (English summary) **94k:60004**
Tardelli, P. *see* **De Santis, Alberto; et al., 94b:60010**
Wu, Jiang Lun Radon extension of cylindrical measures on weak dual multi-Hilbertian spaces and the generalized Bochner theorem. (English summary) **94c:60010**

46G15 Functional analytic lifting theory [see also 28A51]

Macheras, N. D. (*with* Strauss, Werner) On the existence of strong liftings for locally convex topologies. **94e:46077**
Strauss, Werner *see* **Macheras, N. D., 94e:46077**

Items with secondary classifications in 46G15

Burke, Maxim R. (*with* Shelah, Saharon) Linear liftings for noncomplete probability spaces. (English summary) **94m:03079**
Macheras, N. D. (*with* Strauss, Werner) On various strong lifting properties for topological measure spaces. **94g:28006**
— (*with* Strauss, Werner) On the permanence of almost strong liftings. **94g:28007**
Shelah, Saharon *see* **Burke, Maxim R., 94m:03079**
Strauss, Werner *see* **Macheras, N. D., 94g:28006** *and* **94g:28007**

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46G99 None of the above, but in this section

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— (*with* Buttazzo, Giuseppe) Errata to: "Local mappings on spaces of differentiable functions" [Manuscripta Math. **79** (1993), no. 1, 81–97; MR 94b:46073]. **Buttazzo, Giuseppe** *see* **Alberti, Giovanni, 94b:46073**
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— Letter to the editors: "Analogues of the inequalities of A. Markov and S. Bernstein for polynomials in Banach spaces" [Mat. Zametki **52** (1992), no. 5, 13–21, 140; MR 94e:41026]. (Russian)
Choban, M. M. (*with* Kenderov, Petar S.; Revalski, J. P.) Densely defined selections of multivalued mappings. **94k:54039**
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46Hxx Topological algebras, normed rings and algebras, Banach algebras {For group algebras, convolution algebras and measure algebras, see 43A10, 43A20.}

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Khelemskiĭ, A. Ya. From topological homology: algebras with different properties of homological triviality [MR 92k:46120]. (*see* **94d:00013**)
— ★ Banach and locally convex algebras. **94f:46001**
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Argun, Ziya Quasi-multipliers as a locally convex space. (English and Turkish summaries) **94c:46091**
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Fernández López, Antonio[2] (*with* Müller, Vladimír) Embedding of a separable locally pseudoconvex algebra into a locally pseudoconvex algebra with two generators. (English summary) **94a:46057**
Gaur, A. K. (*with* Kovářík, Z. V.) A disc characterization of relative numerical ranges in Banach algebras. (English summary) **94c:46093**
Gohberg, Israel (*with* Krupnik, N. Ya.) Extension theorems for invertibility symbols in Banach algebras. (English summary) **94a:46058**
Goldberg, Moshe Seminorms and multiplicativity factors. (English summary) **94b:46074**
Gorin, E. A. A generalization of a theorem of Fuglede. (Russian. Russian summary) **94k:46089**
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— Minimal primal ideals in Banach algebras. (English summary) **94k:46090**
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Vechtomov, E. M. Rings of continuous functions and Gel'fand theory. (Russian) **94e:46085**

46H15 Representations of topological algebras

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Kulkarni, S. H. Representation of a real B^*-algebra on a quaternionic Hilbert space. (English summary) **94h:46087**
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46H20 Structure, classification of topological algebras

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Watson, Saleem *see* **Redlin, Lothar, 94a:46061**
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Rodríguez-Palacios, Ángel One-sided division absolute valued algebras. (English summary) **94j:46048**
Schweitzer, Larry B. A nonspectral dense Banach subalgebra of the irrational rotation algebra. (English summary) **94e:46107**
Thomas, Marc P. Primitive ideals and derivations on noncommutative Banach algebras. (English summary) **94e:46087**
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46H25 Normed modules and Banach modules, topological modules (if not placed in 13–XX or 16–XX)

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Khrennikov, A. Yu. On the theory of an infinite-dimensional superspace: reflexive Banach supermodules. (Russian. Russian summary) **94g:46049**
Lin, Chia-Shiang Sesquilinear and quadratic forms on modules over $*$-algebras. (English summary) **94d:46054**
Loginov, A. I. (*with* Shul'man, V. S.) Vector-valued duality for modules over Banach algebras. (Russian. Russian summary) **94h:46074**
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Molnár, Lajos On A-linear operators on a Hilbert A-module. (English summary) **94i:46062**
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Rodríguez-Palacios, Ángel *see* **Cabrera García, Miguel; et al., 94k:46092**
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Douglas, Ronald G. (*with* Yan, Ke Ren) A multi-variable Berger-Shaw theorem. **94h:47006**
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Khelemskiĭ, A. Ya. Banach cyclic (co)homology as Banach derived functors. (Russian. Russian summary) **94g:46085**
Kitchen, J. W. (*with* Robbins, D. A.) Integral operators on the section space of a Banach bundle. (English summary) **94g:46086**
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46H30 Functional calculus in topological algebras [see also 47A60]

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Duchoň, Miloslav (*with* Zajac, Michal) Convolution of spectral mappings. (English summary) **94e:46086**
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Murphy, Gerard J. The index group, the exponential spectrum, and some spectral containment theorems. (English summary) **94a:46064**
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Doust, Ian (*with* Qiu, Bo Zhou) The spectral theorem for well-bounded operators. (English summary) **94i:47048**
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Nazaĭkinskiĭ, V. E. (*with* Sternin, B. Yu.; Shatalov, V. E.) Introduction to Maslov's operational method (applications). (Russian summary) **94m:46121**
Qiu, Bo Zhou *see* **Doust, Ian, 94i:47048**
Rodríguez-Palacios, Ángel Closed derivations of Banach algebras. **94a:46060**
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46H35 Topological algebras of operators [See mainly 47D30, and also 47D25, 47D50]

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46H40 Automatic continuity

Bade, W. G. (*with* Dales, H. G.) Uniqueness of complete norms for quotients of Banach function algebras. (English summary) **94f:46062**
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Laursen, Kjeld B. (*with* Neumann, Michael M.) Automatic continuity of intertwining linear operators on Banach spaces. **94f:46063**

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Park, Sung-Wook Continuity of homomorphisms and derivations on Banach algebras. **94f:46064**
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46H70 Nonassociative topological algebras [see also 46K70, 46L70]

Cabrera García, Miguel (*with* Rodríguez-Palacios, Ángel) Zel'manov's theorem for normed simple Jordan algebras with a unit. **94d:46055**
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— Free Banach-Lie algebras, couniversal Banach-Lie groups, and more. (English summary) **94c:46099**
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Narayanan, K. S. (*with* Ramaswamy, V.) Gel'fand-Mazur theorem for alternative Banach triple systems. (English summary) **94h:46106**
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— (*with* Vianello, Marco) Abstract versions of L'Hôpital's rule for holomorphic functions in the framework of complex B-modules. (English summary) **94j:46050b**
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— (*with* Laursen, Kjeld B.) Multipliers with closed range on regular commutative Banach algebras. (English summary) **94j:46051**
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46J10 Banach algebras of continuous functions, function algebras [see also 46E25]

Arens, Richard F. (*with* Goldberg, Moshe; Luxemburg, W. A. J.) Multiplicativity factors for function norms. (English summary) **94h:46078**

— (*with* Goldberg, Moshe; Luxemburg, W. A. J.) Multiplicativity factors for Orlicz space function norms. (English summary) **94h:46079**

Cima, Joseph A. (*with* Stroethoff, Karel; Yale, Keith) Bourgain algebras on the unit disk. (English summary) **94i:46065**

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Körner, T. W. A cheaper Swiss cheese. (English summary) **94e:46091**

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Bhattacharya, D. K. (*with* Manna, S.) Some remarks on the space of entire Dirichlet series. (English summary)

Choy, Stephen T. L. (*with* Wong, James C. S.) A characterization of the second dual of $C_0(S, A)$. **94b:46057**

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Dorofaeff, Brian The Fourier algebra of $\mathrm{SL}(2, \mathbf{R}) \ltimes \mathbf{R}^n$, $n \geq 2$, has no multiplier bounded approximate unit. **94k:43005**

Garrido Carballo, María Isabel (*with* Montalvo Durán, Francisco) On some generalizations of the Kakutani-Stone and Stone-Weierstrass theorems. **94m:46041**

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46J15 Banach algebras of differentiable or analytic functions, H^p-spaces [see also 30D55, 30H05, 32A35, 32A37, 32E25, 42B30]

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Andersson, Mats The H^2 corona problem and $\overline{\partial}_b$ in weakly pseudoconvex domains. **94e:32033**

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Berenstein, Carlos A. (*with* Kawai, Takahiro; Struppa, Daniele C.) Interpolation theorems in several complex variables and applications. **94h:32016**

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46L70 Nonassociative selfadjoint operator algebras [see also 46H70, 46K70]

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46L89 Other "noncommutative" mathematics based on C^*-algebra theory [see also 58B30, 58G12]

Baaj, Saad (*with* Skandalis, Georges) Unitaires multiplicatifs et dualité pour les produits croisés de C^*-algèbres. (English summary) [Multiplicative unitary operators and duality for crossed products of C^*-algebras] **94e:46127**
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Gootman, Elliot C. (*with* Lazar, Aldo J.) Quantum groups and duality. (English summary) **94h:46109**
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Degli Esposti, Mirko Quantization of the orientation preserving automorphisms of the torus. (English and French summaries) **94g:58084**
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— Cyclic vectors for Hilbert algebras. (English summary) **94g:22011**
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Ruan, Zhong-jin On the predual of dual algebras. **94k:47070**
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— (*with* Poon, Y. T.; Wagner, B. H.) Correction to: "Analytic TAF algebras". **94m:46113b**
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Haag, Rudolf Local quantum physics and models. (English summary) **94f:81097**

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Khimshiashvili, G. N. Functional calculus and the topology of singular operators. (Russian) **94d:46073**

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Kravchenko, V. G. (*with* Litvinchuk, G. S.) On the C^*-algebra of singular integral operators with Carleman shift on a nonclosed arc. (English summary) **94k:47076**

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Lau, Anthony To Ming (*with* Losert, Viktor) The C^*-algebra generated by operators with compact support on a locally compact group. (English summary) **94d:22005**

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Petronio, Carlo Direct sums of Cartan factors. **94f:47050**

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— Interpolation between H^p spaces and noncommutative generalizations. II. (English summary) **94g:46089**

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Schüler, Axel Covariant bimodules and differential calculi on quantum groups of type B, C, D. **94c:58013**

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46M05 Tensor products [see also 46A32, 46B28, 47A80]

Bonet, José (*with* Díaz Alcaide, Juan Carlos; Taskinen, Jari) Tensor stable Fréchet and (DF)-spaces. (English summary) **94c:46140**

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— (*with* Floret, Klaus) ★ Tensor norms and operator ideals. **94e:46130**

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— (*with* López Molina, J. A.) Operators defined on projective and natural tensor products. **94c:47031**

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Chō, Muneo (*with* Huruya, Tadasi) A remark on the slice map problem. (English summary) **94k:46105**

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Colojoară, Alexandra The Banach tensor algebra with involution for a Banach space with involution. (English and Romanian summaries) **94a:46068a**

— The Banach tensor algebra with involution associated to a Banach space with absolute basis. II. (English and Romanian summaries) **94a:46068b**

— On the representation of the tensor algebra with involution of a Banach space in a Hilbert space. (English and Romanian summaries) **94a:46068c**

— The $\mathscr{M}$-symmetric algebra of the dual of some Banach spaces. (English summary) **94b:46068**

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46M20 Methods of algebraic topology (cohomology, sheaf and bundle theory, etc.) [see also 14F05, 18Fxx, 19Kxx, 32Cxx, 32Lxx, 46L80, 55Rxx]

Khelemskiĭ, A. Ya. Banach cyclic (co)homology as Banach derived functors. (Russian. Russian summary) 94g:46085
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46M40 Inductive and projective limits [see also 46A13]

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46M99 None of the above, but in this section

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46Nxx Miscellaneous applications of functional analysis [see also 47Nxx]

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Attouch, Hédy (*with* Azé, Dominique) Approximation and regularization of arbitrary functions in Hilbert spaces by the Lasry-Lions method. (English and French summaries) **94e:90126**

— (*with* Beer, Gerald) On the convergence of subdifferentials of convex functions. **94b:49018**

Azé, Dominique (*with* Penot, Jean-Paul) The Joly topology and the Mosco-Beer topology revisited. (English summary) **94i:49028**

— *see also* **Attouch, Hédy, 94e:90126**

Beer, Gerald (*with* Borwein, Jonathan M.) Mosco and slice convergence of level sets and graphs of linear functionals. **94i:46031**

— Wijsman convergence of convex sets under renorming. **94m:46021**

— Lipschitz regularization and the convergence of convex functions. (English summary) **94m:49018**

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— (*with* Heal, Geoffrey M.) Competitive equilibrium in Sobolev spaces without bounds on short sales. (English summary) **94b:90013**

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Dauer, J. P. (*with* Saleh, O. A.) A characterization of proper minimal points as solutions of sublinear optimization problems. (English summary) **94h:90043**

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Hoàng Xuân Phú γ-subdifferential and γ-convexity of functions on the real line. (English summary) **94a:49008**

Holá, Ľubica (*with* Holý, Dušan) A weakening of the Attouch-Wets topology on function spaces. (English summary) **94k:54035**

Holý, Dušan *see* **Holá, Ľubica, 94k:54035**

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— *see also* **Yang, Xiao Qi, 94g:49043**

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Ruan, Guo Zhen A kind of generalized second-order derivatives and second-order subdifferentials. (Chinese. English and Chinese summaries) **94g:49039**

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Shapiro, Alexander Existence and differentiability of metric projections in Hilbert spaces. (English summary) **94m:90111**

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Thakur, Lakshman S. Uniformly extremal solutions in Sobolev function spaces for the quadratic case: characterization and applications. (English summary) **94k:90061**

Valadier, Michel Absolue continuité et lipschitzité. [Absolute continuity and Lipschitzness] **94g:26023**

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Wang, Yun Tong[1] Approximate subdifferentials and nonsmooth analysis in finite dimensions. (English summary) **94a:49012**

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Yang, Xiao Qi (*with* Jeyakumar, V.) Generalized second-order directional derivatives and optimization with $C^{1,1}$ functions. (English summary) **94g:49043**

— A Hahn-Banach theorem in ordered linear spaces and its applications. (English summary) **94j:90032**

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Zhang, Chang Bin *see* **Zhang, Shi Sheng; et al., 94h:47137**

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46N20 Applications to differential and integral equations

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Coulhon, Thierry Sobolev inequalities on graphs and on manifolds. **94d:46075**

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Alimov, Sh. A. Spectral expansions of distributions. (Russian) **94j:35113**

Altomare, F. Lototsky-Schnabl operators on compact convex sets and their associated limit semigroups. (English summary) **94c:47044**

Ambrosetti, Antonio (*with* Prodi, Giovanni) ★ A primer of nonlinear analysis. (English summary) **94f:58016**

Andryan, A. A. On the theory of boundary value problems for systems of composite type with lowest terms. (Russian. Russian summary) **94f:35093**

Appell, Jürgen (*with* Guk, O. Jong; Zabreĭko, P. P.) On the Weyl decomposition of the space $\mathring{D}(\Omega)$ and orthogonal projections of Navier-Stokes equations. **94m:46053**

Aubin, Jean-Pierre Mutational equations in metric spaces. (English summary) **94h:34020**

Baumgärtel, Hellmut On the reconstruction problem in superselection theory. (English summary) **94k:81162**

Bavrin, I. I. ★ Операторный метод в комплексном анализе. (Russian. Russian summary) [The operator method in complex analysis] **94f:32001**

Boggiatto, Paolo Sobolev spaces associated with a polyhedron and multiquasielliptic pseudodifferential operators in $\mathbf{R}^n$. (Italian. English summary) **94m:46054**

Bramanti, Marco On the gradient of Schwarz symmetrization of functions in Sobolev spaces. (Italian summary) **94d:46036**

Bulabaev, A. T. (*with* Mukhambetzhanov, A. T.) Some multidimensional difference embedding theorems. (Kazakh. English, Russian and Kazakh summaries) **94h:46055**

Capogna, Luca (*with* Danielli, Donatella; Garofalo, Nicola) An embedding theorem and the Harnack inequality for nonlinear subelliptic equations. **94j:35038**

Chang, Der-Chen (*with* Krantz, Steven G.; Stein, Elias M.) H^p theory on a smooth domain in $\mathbf{R}^N$ and elliptic boundary value problems. (English summary) **94j:46032**

Chemin, Jean-Yves Espaces fonctionnels associés au calcul de Weyl-Hörmander (d'après un travail avec J.-M. Bony). [Function spaces associated with the Weyl-Hörmander calculus (based on joint work with J.-M. Bony)] **94f:35160**

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Chen, Zhen Qing (*with* Williams, Ruth J.; Zhao, Zhong Xin) A Sobolev inequality and Neumann heat kernel estimate for unbounded domains. (English summary) **94m:46056**

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Choquet-Bruhat, Yvonne Applications of generalized functions to shocks and discrete models. **94f:46054**

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Daletskiĭ, A. Yu. Infinite-dimensional Schrödinger equations and the representation of the group of symplectic morphisms of a Hilbert phase space. (Russian) **94e:35137**

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Mostafazadeh, Ali *see* **Bohm, Arno; et al., 94h:53100**
Mueller, U. A. *see* **Ali, S. Twareque; et al., 94k:47026**
Mundici, Daniele Logic of infinite quantum systems. (English summary) **94k:81018**
Ohya, Masanori (*with* Petz, Dénes) ★ Quantum entropy and its use. (English summary) **94k:81002**
Ozawa, Masanao Canonical approximate quantum measurements. (English summary) **94k:81028**
Parthasarathy, Kalyanapuram Rangachari (*with* Sinha, Kalyan B.) Unification of quantum noise processes in Fock spaces. **94g:81111**
— *see also* **Mohari, A., 94d:46063**
Petz, Dénes *see* **Ohya, Masanori, 94k:81002**
Potthoff, J. (*with* Streit, L.) Invariant states on random and quantum fields: φ-bounds and white noise analysis. (English summary) **94c:81116**
Pulmannová, Sylvia *see* **Hudson, Robin L., 94i:81011**
Quaegebeur, J. *see* **Accardi, Luigi, 94c:81103**
Rembieliński, Jakub *see* **Kowalski, Krzysztof, 94b:58010**
Rendall, Alan D. Unique determination of an inner product by adjointness relations in the algebra of quantum observables. (English summary) **94i:81089**
Roberts, John E. *see* **Buchholz, Detlev; et al., 94b:81064**
Rovelli, Carlo A generally covariant quantum field theory and a prediction on quantum measurements of geometry. (English summary) **94m:83027**
Rudolph, Gerd *see* **Bohm, Arno; et al., 94h:53100**
Russo, Bernard *see* **Friedman, Yaakov, 94k:46148**
Saller, H. Quantum algebras. I. Basic algebraic and topological structures. (English summary) **94i:81075**
Schmeelk, John Multiplication and quasiasymptotic behaviour in generalized Fock spaces. **94k:46078**
Schroer, Bert Recent developments of algebraic methods in quantum field theories. (English summary) **94b:81065**
Schücker, Th. *see* **Kastler, Daniel, 94c:46138**
Sinha, Kalyan B. *see* **Parthasarathy, Kalyanapuram Rangachari, 94g:81111**
Solov'ev, M. A. *see* **Fainberg, V. Ya., 94g:81118**
Speicher, Roland *see* **Bożejko, Marek, 94c:46130**
Storchak, S. N. Homogeneous point transformation and reparametrization of paths in path integrals for fourth-order differential equations. (Russian. English and Russian summaries) **94m:81059**
— A remark on path reparametrization in path integrals for third-order differential equations. (Russian. English and Russian summaries) **94m:81060**
Streit, L. *see* **Potthoff, J., 94c:81116**
Strocchi, F. *see* **Acerbi, F.; et al., 94f:81093**
Suzuki, Masuo Fractal path integrals with applications to quantum many-body systems. (English summary) **94a:81068**
— Improved Trotter-like formula. (English summary) **94k:81159**
Uematsu, Tsuneo *see* **Kobayashi, Tatsuo, 94c:58011**
Uhlmann, Armin The metric of Bures and the geometric phase. **94e:81083**
Upmeier, Harald *see* **Borthwick, David; et al., 94d:47065**
Varadarajan, V. S. Quantum theory and geometry: sixty years after von Neumann. (English summary) **94k:81020**
Wollenberg, Manfred A note on the type of local von Neumann algebras in quantum field theory over curved space-time. (English summary) **94k:81198**
Wright, Jill Dianne *see* **Carey, Alan L., 94k:81172**

46N55 Applications in statistical physics

Items with secondary classifications in 46N55

Antonyuk, A. Val. (*with* Antonyuk, A. Vikt.; Kondrat'ev, Yu. G.) The construction of macroscopic Gibbs states via functional integration. (English summary) **94e:82004**
Antonyuk, A. Vikt. *see* **Antonyuk, A. Val.; et al., 94e:82004**
Benatti, Fabio The classical limit of a class of quantum dynamical semigroups. (English and French summaries) **94g:82028**
Duffield, N. G. (*with* Werner, R. F.) Local dynamics of mean-field quantum systems. (English summary) **94g:82029**
Gerisch, Thomas (*with* Honegger, Reinhard; Rieckers, Alfred) Limiting dynamics of generalized Bardeen-Cooper-Schrieffer models beyond the pair algebra. (English summary) **94c:82004**
Hayashi, Takahiro Quantum group symmetry of partition functions of IRF models and its application to Jones' index theory. (English summary) **94h:82020**
Hertle, Jochen The limiting dynamics of an imperfect Bose gas. (English summary) **94j:82010**
Hiai, Fumio (*with* Petz, Dénes) Entropy densities for Gibbs states of quantum spin systems. (English summary) **94k:82006**
Ho, T. G. (*with* Landau, L. J.; Wilkins, A. J.) On the weak coupling limit for a Fermi gas in a random potential. (English summary) **94j:82046**
Honegger, Reinhard *see* **Gerisch, Thomas; et al., 94c:82004**
Kawahigashi, Yasuyuki Exactly solvable orbifold models and subfactors. **94k:46129**
Khudoinazarov, N. U. Analytic properties of Gibbs states for a class of one-dimensional lattice quantum systems. (Russian. English and Russian summaries) **94d:82006**
Kondrat'ev, Yu. G. *see* **Antonyuk, A. Val.; et al., 94e:82004**
Kravchuk, N. V. On the spatial dilations of certain dynamical systems. (Ukrainian. English and Russian summaries) **94g:46073**
Landau, L. J. *see* **Ho, T. G.; et al., 94j:82046**
Liebscher, Volkmar Conditional local states and decomposition of locally normal states. (English summary) **94j:82011**
Lőrinczi, Jozsef (*with* Winnink, Marinus) Some remarks on almost Gibbs states. (English summary) (*see* **94j:82002**)
Matsui, Taku Markov semigroups on UHF algebras. (English summary) **94j:82049**
Meyer, Paul-André Application du "bébé Fock" au modèle d'Ising. [Application of the "baby Fock" to the Ising model] **94c:82006**
Narnhofer, Heide An ergodic abelian skeleton for quantum systems. (English summary) **94j:46064**
Neirotti, J. P. (*with* Raggio, G. A.) Maximizing relative entropy at given energies. (English summary) **94j:82012**
Petz, Dénes *see* **Hiai, Fumio, 94k:82006**
Pokorny, Martin Continuous spectrum in the ground state of two spin-$\frac{1}{2}$ models in the infinite-volume limit. (English summary) **94e:82013**
Raggio, G. A. *see* **Neirotti, J. P., 94j:82012**
Rieckers, Alfred *see* **Gerisch, Thomas; et al., 94c:82004**
Robinson, P. L. Quasifree representations of Clifford algebras. **94c:46117**
Sitarz, Andrzej Noncommutative geometry and the Ising model. (English summary) **94h:82011**
Sudarshan, E. C. G. The structure of quantum dynamical semigroups. (English summary) **94k:82069**
Werner, R. F. *see* **Duffield, N. G., 94g:82029**
Wilkins, A. J. *see* **Ho, T. G.; et al., 94j:82046**
Winnink, Marinus *see* **Lőrinczi, Jozsef, (94j:82002)**

46N60 Applications in biology and other sciences

Items with secondary classifications in 46N60

Boutet de Monvel-Berthier, Anne-Marie (*with* Georgescu, Vladimir) Graded C^*-algebras and many-body perturbation theory. II. The Mourre estimate. (English summary) **94i:81023**
Ekhaguere, G. O. S. Unbounded quantum dynamical systems. **94h:47086**
Georgescu, Vladimir *see* **Boutet de Monvel-Berthier, Anne-Marie, 94i:81023**

46N99 None of the above, but in this section

Turinici, Mihai *see* **Turinici, Silvia, 94c:46153**

Turinici, Silvia (*with* Turinici, Mihai) Projective metrics on abstract ordered sets. **94c:46153**

Items with secondary classifications in 46N99

Auberson, G. Monogenic continuation for vector fields. (English summary) **94f:30059**
Benedetto, John J. (*with* Heller, William) Irregular sampling and the theory of frames. I. (English summary) **94e:94006**
Borthwick, David The Pfaffian line bundle. (English summary) **94d:58156**
— (*with* Klimek, Sławomir; Lesniewski, Andrzej; Rinaldi, Maurizio) Super-Toeplitz operators and nonperturbative deformation quantization of supermanifolds. (English summary) **94d:47020**
Bratishchev, A. V. On the Köthe basis property and the moment problem in a Fréchet space with the weak topology. (Russian) **94m:46008**
Gohberg, Israel (*with* Kaashoek, M. A.; Woerdeman, Hugo J.) The band method for several positive extension problems of nonband type. **94e:47027**
Heller, William *see* **Benedetto, John J., 94e:94006**
Holschneider, Matthias Localization properties of wavelet transforms. (English summary) **94j:42050**
Kaashoek, M. A. *see* **Gohberg, Israel; et al., 94e:47027**
Klimek, Sławomir *see* **Borthwick, David; et al., 94d:47020**
Lesniewski, Andrzej *see* **Borthwick, David; et al., 94d:47020**
Lucht, Lutz An application of Banach algebra techniques to multiplicative functions. **94g:11072**
Mallios, Anastasios On an abstract form of Weil's integrality theorem. **94m:58247**
Pasquale, A. Hypertopologies induced by scales of functional kind. (Italian summary) **94g:54007**
Rinaldi, Maurizio *see* **Borthwick, David; et al., 94d:47020**
Sakai, Makoto Regularity of boundaries of quadrature domains in two dimensions. (English summary) **94c:30054**
Shkarin, S. A. The moment problem in Fréchet spaces. (Russian. Russian summary) **94i:44010**
Soardi, Paolo M. Morphisms and currents in infinite nonlinear resistive networks. (English summary) **94j:31009**
Tiwari, A. K. Distributional form invariant linear systems. (*see* **94d:46004**)
Woerdeman, Hugo J. *see* **Gohberg, Israel; et al., 94e:47027**

46Sxx Other (nonclassical) types of functional analysis [see also 47Sxx]

46S10 Functional analysis over fields other than R or C or the quaternions; non-Archimedean functional analysis [see also 12J25, 32P05]

Álvarez García, José Antonio C^*-algebras of operators in non-Archimedean Hilbert spaces. (English summary) **94i:46103**
Caldas Cueva, Miguel Two new classes of locally K-convex spaces. (English summary) **94i:46104a**
— Some classes of non-Archimedean convex spaces. (English summary) **94e:46137**
— Stability of barrelledness and infrabarrelledness in locally K-convex spaces. (English summary) **94i:46104b**
— A polynomial significant property of non-Archimedean locally convex spaces. **94f:46100**
— A non-Archimedean generalization of Mahowald's theorem for d-barrelled spaces. (Portuguese. Portuguese summary) **94b:46107**
— Some classes of non-Archimedean locally convex spaces. (English summary) **94i:46104c**
De Grande-De Kimpe, Nicole (*with* Pérez-García, Cristina; Schikhof, W. H.) Non-Archimedean t-frames and FM-spaces. (English summary) **94c:46154**
— (*with* Pérez-García, Cristina) p-adic semi-Montel spaces and polar inductive limits. (English summary) **94g:46092**
Escassut, Alain Algèbres d'éléments analytiques intégralement closes ou non. [Integrally or non-integrally closed algebras of analytic elements] (*see* **94h:00017**)
— (*with* Sarmant-Durix, Marie-Claude) Mittag-Leffler series and Motzkin product for invertible analytic elements. (English summary) **94h:46114**
Katsaras, A. K. Non-Archimedean Λ_0-compactoid sets and Λ_0-nuclear operators. (Italian summary) **94i:46105**
— Non-Archimedean collectively Λ_0-nuclear operators. (English summary) **94c:46155**
Kiyosawa, Takemitsu Schauder decompositions of non-Archimedean Banach spaces. (English summary) **94k:46159**
Pérez-García, Cristina (*with* Schikhof, W. H.) The Orlicz-Pettis property in p-adic analysis. (English summary) **94k:46160**
— *see also* **De Grande-De Kimpe, Nicole; et al., 94c:46154** *and* **94g:46092**
Sarmant-Durix, Marie-Claude *see* **Escassut, Alain, 94h:46114**
Schikhof, W. H. *see* **De Grande-De Kimpe, Nicole; et al., 94c:46154** *and* **Pérez-García, Cristina, 94k:46160**
Somasundaram, D. Inclusion theorems on matrix transformations of some sequence spaces over non-Archimedian fields. V. (English summary) **94c:46156**
Verdoodt, Ann Normal bases for non-Archimedean spaces of continuous functions. (English summary) **94i:46106**

Items with secondary classifications in 46S10

Buskes, G. J. H. M. The Hahn-Banach theorem surveyed. **94h:46007**
Caldas Cueva, Miguel Two new classes of locally K-convex spaces. (English and Spanish summaries) **94a:46007**
Cuartero, Bienvenido (*with* Galé, José E.) Bounded degree of algebraic topological algebras. (English summary) **94m:17002**
De Smedt, Stany Some new bases for p-adic continuous functions. **94d:12010**
Galé, José E. *see* **Cuartero, Bienvenido, 94m:17002**
Ikeda, Kazuo (*with* Kim, Taekyun; Shiratani, Katsumi) On p-adic bounded functions. **94b:11117**
Ivashchuk, V. D. Tensor Banach algebras of projective type. I. (Russian. English and Russian summaries) **94c:46101a**
— Tensor Banach algebras of projective type. II. The l_1-case. (Russian. English and Russian summaries) **94c:46101b**
Kim, Taekyun *see* **Ikeda, Kazuo; et al., 94b:11117**
Prolla, João B. The Weierstrass-Stone theorem in absolute valued division rings. (English summary) **94d:41057**
Shiratani, Katsumi *see* **Ikeda, Kazuo; et al., 94b:11117**
Sorjonen, Pekka Hahn-Banach extension properties in linear orthogonality spaces. (English summary) **94d:46009**

46S20 Nonstandard functional analysis [see also 03H05]

Blanco, Liliana *see* **Takeuchi, Yu, 94g:46093**
Fajardo, Sergio Introduction to the theory of Banach space models. (Spanish) **94m:46122**
Takeuchi, Yu (*with* Blanco, Liliana) Nonstandard representation of the Riesz theorem. (Spanish) **94g:46093**

Items with secondary classifications in 46S20

Guererro, Juan Representation of distributions by nonstandard functions. (Spanish. Spanish summary) **94b:46066**
Hoskins, Roy Frank (*with* de Sousa Pinto, J.) Nonstandard treatments of new generalised functions. **94i:46049**
Huang, Cheng Gui ★ δ hanshu de xin lilun. (Chinese. Chinese summary) [A new theory of δ functions] **94a:46049**
Li, Bang He (*with* Li, Ya Qing) New generalized functions in nonstandard framework. (English summary) **94e:46072**
Li, Ya Qing *see* **Li, Bang He, 94e:46072**
Osswald, Horst A note on liftings of linear continuous functionals. **94g:03120**
Péraire, Yves Analyse relative. [Relative analysis] **94j:03133**
Pestov, V. G. Nonstandard hulls of Banach-Lie groups and algebras. (English summary) **94h:46076**
— An analytic structure emerging in the presence of infinitely many odd coordinates. (English summary) **94j:58013**
de Sousa Pinto, J. *see* **Hoskins, Roy Frank, 94i:46049**
Wu, Jiang Lun Radon extension of cylindrical measures on weak dual multi-Hilbertian spaces and the generalized Bochner theorem. (English summary) **94c:60010**

46S30 Constructive functional analysis [see also 03F65]

Lisovik, L. P. Representation of linear functionals over partially continuous functions. (Russian. English and Ukrainian summaries) **94c:46157**

Items with secondary classifications in 46S30

Hellman, Geoffrey Gleason's theorem is not constructively provable. **94b:03099**

46S40 Fuzzy functional analysis [see also 04A72]

Bakier, M. Y. (*with* El-Saady, K.) Fuzzy topological ordered vector spaces. I. (English summary) **94c:46158**
El-Saady, K. *see* **Bakier, M. Y., 94c:46158**
Felbin, Clementina The completion of a fuzzy normed linear space. (English summary) **94c:46159**
Gal, Sorin Gh. A fuzzy variant of the Weierstrass's approximation theorem. (English summary) **94i:46107**
Kitsunezaki, Naoki *see* **Terao, Yutaka, 94k:46162**
Ma, Ming *see* **Wu, Cong Xin, 94i:46108**
Terao, Yutaka On a continuous base of fuzzy neighbourhoods of the origin on fuzzy locally convex spaces. (English summary) **94k:46161**
— (*with* Kitsunezaki, Naoki) Fuzzy sets and linear mappings on vector spaces. (English summary) **94k:46162**
Wu, Cong Xin (*with* Ma, Ming) Continuity and boundedness for the mappings between fuzzy normed spaces. (English summary) **94i:46108**

Items with secondary classifications in 46S40

Lê bá Long Vector-valued fuzzy measures on fuzzy quantum posets. (English summary) **94j:81020**
Ma, Ming On embedding problems of fuzzy number spaces. IV. (English summary) **94e:26039**
Rosa, M. V. On fuzzy topology fuzzy convexity spaces and fuzzy local convexity. (English summary) **94i:54013**

46S50 Functional analysis in probabilistic metric linear spaces

Alsina, Claudi (*with* Schweizer, Berthold; Sklar, A.) On the definition of a probabilistic normed space. (English summary) **94h:46115**
Goleţ, I. On the approximation of functions with values in random normed spaces. (Romanian summary) (*see* **94j:00024**)
Gong, Fu Zhou *see* **Liu, Qing Rong, 94a:46109**
Liu, Qing Rong (*with* Gong, Fu Zhou) An orthogonal projection theorem for a class of random inner product spaces and its applications. (Chinese. Chinese summary) **94a:46109**
Schweizer, Berthold *see* **Alsina, Claudi; et al., 94h:46115**
Sklar, A. *see* **Alsina, Claudi; et al., 94h:46115**

Items with secondary classifications in 46S50

Alsina, Claudi (*with* Tomás, M. S.) On positive semidefinite strict t-norms. (English summary) **94a:26031**
Bai, Yan Qin Extension theorems for random linear operators. (Chinese. English and Chinese summaries) **94d:47069**

Goleţ, I. On the 2-metrisation of probabilistic 2-metric spaces. (English summary) (*see* **94j:00025**)
Gong, Huai Yun (*with* Xiang, Shu Huang) Fixed-point theorems on probabilistic normed spaces and their applications. (Chinese. English and Chinese summaries) **94k:47084**
Lipovan, O. Integration in random normed spaces. II. (Romanian summary)
— Integration in random normed spaces. I. (Romanian summary) (*see* **94j:00024**)
Tomás, M. S. *see* **Alsina, Claudi, 94a:26031**
Xiang, Shu Huang *see* **Gong, Huai Yun, 94k:47084**

46S99 None of the above, but in this section

Samborskiĭ, S. N. (*with* Shpiz, G. B.) Convex sets in the semimodule of bounded functions. **94a:46110**
Shpiz, G. B. *see* **Samborskiĭ, S. N., 94a:46110**
Shubin, M. A. Algebraic remarks on idempotent semirings and the kernel theorem in spaces of bounded functions. **94a:46111**

Items with secondary classifications in 46S99

Börger, Reinhard (*with* Kemper, Ralf) Normed totally convex spaces. **94f:52001**
Cianci, Roberto (*with* Khrennikov, A. Yu.) p-adic superanalysis. I. Infinitely generated Banach superalgebras and algebraic groups. (English summary) **94h:58029**
— (*with* Khrennikov, A. Yu.) p-adic superanalysis. II. Supermanifolds and differential operators. (English summary) **94h:58030**
Inoue, Atsushi Foundation of real analysis on the superspace $\mathbb{R}^{m|n}$ over the ∞-dimensional Fréchet-Grassmann algebra. (English summary) **94d:58021**
Kemper, Ralf *see* **Börger, Reinhard, 94f:52001**
Khrennikov, A. Yu. On the theory of an infinite-dimensional superspace: reflexive Banach supermodules. (Russian. Russian summary) **94g:46049**
— *see also* **Cianci, Roberto, 94h:58029** *and* **94h:58030**
Kusraev, A. G. Kantorovich spaces and the metrization problem. (Russian. English and Russian summaries) **94h:46006**
Kuznetsov, S. P. (*with* Mochalov, V. V.) Automorphisms of the Clifford algebra, and strongly regular functions. (Russian) **94h:30058**
Lesin, S. A. (*with* Samborskiĭ, S. N.) Spectra of compact endomorphisms. **94c:47047**
Mochalov, V. V. *see* **Kuznetsov, S. P., 94h:30058**
Nishimura, Hirokazu On the duality between Boolean-valued analysis and reduction theory under the assumption of separability. (English summary) **94m:46098**
Povyshev, A. G. *see* **Vechtomov, E. M., (94b:00031)**
Robinson, P. L. Symplectic pathology. **94a:58014**
Samborskiĭ, S. N. *see* **Lesin, S. A., 94c:47047**
Vechtomov, E. M. (*with* Povyshev, A. G.) Idempotent and semiprime ideals in rings of continuous functions. (Russian. English, Russian and Latvian summaries) (*see* **94b:00031**)

47–XX Operator theory

47–01 Instructional exposition (textbooks, tutorial papers, etc.)

Akhiezer, N. I. (*with* Glazman, I. M.) ★ Theory of linear operators in Hilbert space. (English summary) **94i:47001**
Glazman, I. M. *see* **Akhiezer, N. I., 94i:47001**
Guo, Mao Zheng *see* **Zhang, Gong Qing, 94g:47001**
(Nestell, Merlynd) *see* **Akhiezer, N. I., 94i:47001**
Zhang, Gong Qing (*with* Guo, Mao Zheng) ★ Fanhan fenxi jiangyi. Xia ce. (Chinese. Chinese summary) [Teaching materials on functional analysis. Part II] **94g:47001**

Items with secondary classifications in 47–01

Ge, Suo Wang ★ Yingyong fanhan fenxi jichu. (Chinese. Chinese summary) [Foundations of applied functional analysis] **94c:46001**
Herget, Charles J. *see* **Michel, Anthony N., 94g:00003**
Heuser, Harro ★ Funktionalanalysis. (German) [Functional analysis] **94d:46001**
Lang, Serge ★ Real and functional analysis. (English summary) **94b:00005**
Meise, Reinhold (*with* Vogt, Dietmar) ★ Einführung in die Funktionalanalysis. (German) [Introduction to functional analysis] **94f:46003**
Michel, Anthony N. (*with* Herget, Charles J.) ★ Applied algebra and functional analysis. **94g:00003**
Renardy, Michael (*with* Rogers, Robert C.) ★ An introduction to partial differential equations. **94c:35001**
Rogers, Robert C. *see* **Renardy, Michael, 94c:35001**
Samuélidès, M. (*with* Touzillier, L.) ★ Problèmes d'analyse fonctionnelle et d'analyse harmonique. (French. French summary) [Problems of functional analysis and harmonic analysis] **94f:00004**
(Shih, Mou Hsiang) *see* **Wong, Yau-Chuen, 94c:46003**
Touzillier, L. *see* **Samuélidès, M., 94f:00004**
Vogt, Dietmar *see* **Meise, Reinhold, 94f:46003**
Wong, Yau-Chuen ★ Introductory theory of topological vector spaces. **94c:46003**

47–02 Research exposition (monographs, survey articles)

Birman, M. Sh. (*with* Yafaev, D. R.) The spectral shift function. The papers of M. G. Kreĭn and their further development. (Russian) **94g:47002**
— (*with* Yafaev, D. R.) Spectral properties of the scattering matrix. (Russian. Russian summary) **94g:47003**
Borisovich, Yu. G. Equations with Fredholm and set-valued operators. New results and applications. (Russian summary) **94c:47001**
(Kreĭn, M. G.) *see* **Birman, M. Sh., 94g:47002**
Pincus, Joel (*with* Zhou, Shao Jie) Principal currents for a pair of unitary operators. **94m:47001**
Voiculescu, D. V. Perturbations of operators, connections with singular integrals, hyperbolicity and entropy. **94d:47001**
Yafaev, D. R. *see* **Birman, M. Sh., 94g:47002** *and* **94g:47003**
Zhou, Shao Jie *see* **Pincus, Joel, 94m:47001**

Items with secondary classifications in 47–02

Bakonyi, Miháy (*with* Constantinescu, Tiberiu) ★ Schur's algorithm and several applications. **94b:47022**
Constantinescu, Tiberiu *see* **Bakonyi, Miháy, 94b:47022**
Drábek, Pavel ★ Solvability and bifurcations of nonlinear equations. **94e:47084**
Dye, John M. (*with* Reich, Simeon) Random products of nonexpansive mappings. **94a:47092**
Gheondea, Aurelian Spectral theory of selfadjoint operators on Kreĭn spaces. (Romanian. English summary) **94h:47065**
— *see also* **Operator extensions, interpolation of functions and related topics, 94e:47001**
Nikol'skiĭ, N. K. (*with* Vasyunin, V. I.) Quasi-orthogonal Hilbert space decompositions and estimates of univalent functions. II. **94i:30017**
Reich, Simeon *see* **Dye, John M., 94a:47092**
(Schulenberger, J. R.) *see* **Yafaev, D. R., 94f:47012**
(Timotin, D.) *see* **Operator extensions, interpolation of functions and related topics, 94e:47001**
(Vasilescu, Florian-Horia) *see* **Operator extensions, interpolation of functions and related topics, 94e:47001**
Vasyunin, V. I. *see* **Nikol'skiĭ, N. K., 94i:30017**
Yafaev, D. R. ★ Mathematical scattering theory. **94f:47012**

Items listed otherwise than by author

Conference:
Operator Theory ★ Operator extensions, interpolation of functions and related topics. **94e:47001**
Operator extensions, interpolation of functions and related topics ★ Operator extensions, interpolation of functions and related topics. **94e:47001**
Timişoara ★ Operator extensions, interpolation of functions and related topics. **94e:47001**

47–03 Historical (must also be assigned at least one classification number from Section 01)

Janas, Jan The spectral theorem in its historical aspect. (Polish. English and Polish summaries) **94m:47002**

Items with secondary classifications in 47–03

Birman, M. Sh. (*with* Yafaev, D. R.) The spectral shift function. The papers of M. G. Kreĭn and their further development. (Russian) **94g:47002**
(Hellinger, Ernst David) *see* **Rovnyak, James, 94b:01036**
(Kreĭn, M. G.) *see* **Birman, M. Sh., 94g:47002**
Neuberger, J. W. Beurling's analyticity theorem. **94d:01040**
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Nguyễn Văn Mậu Properties of generalized almost inverses. **94b:47003**
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Schachermayer, Walter *see* **Bogachev, V. I.; et al., (93j:00003)**
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Zhong, Huai Jie Unconditional convergence of series of operators. (Chinese. English and Chinese summaries) **94k:47005**

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Adasch, N. Der Satz über offene lineare Relationen in topologischen Vektorräumen. [The theorem on open linear relations in topological vector spaces] **94k:46013**
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Arora, S. C. (*with* Arora, Pramod) On p-quasihyponormal operators for $0 < p < 1$. (English summary) **94j:47036**
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— Some properties of operators of complex differentiation and shifts. (English, Russian and Polish summaries) **94m:47059**
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Favini, Angelo (*with* Yagi, Atsushi) Multivalued linear operators and degenerate evolution equations. (Italian summary) **94f:34116**
Grubb, A. (*with* Sharma, Chandra Shekhar) P-invertibility of matrices. (English summary) **94c:15001**
Harte, Robin (*with* Mbekhta, Mostafa) Generalized inverses in C^*-algebras. II. (English summary) **94k:46113**
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47A45 Canonical models for contractions and nonselfadjoint operators

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— (*with* Malamud, M. M.) Characteristic functions of almost solvable extensions of Hermitian operators. (Russian. Russian and Ukrainian summaries) **94a:47012**
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— *see also* **Alpay, Daniel; et al., 94i:47018**

Douglas, Ronald G. (*with* Foias, Ciprian) Uniqueness of multi-variate canonical models. **94h:47010**
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47A50 Equations and inequalities involving linear operators, with vector unknowns

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Dzhumaev, S. (*with* Mukhamadiev, È.) On the approximate solution of operator equations. (Russian) (*see* **94i:65005**)
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Fuhrman, Marco Sums of linear operators of parabolic type: a priori estimates and strong solutions. (English summary) **94m:47020**
Groetsch, Charles W. (*with* Scherzer, O.) Optimal order of convergence for stable evaluation of differential operators. (English summary) **94m:47021**
Gusarenko, S. A. A criterion for the reducibility of operator equations. (Russian) **94m:47022**
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Hou, Zong Yi (*with* Li, He Nong) The general Arcangeli's method for solving ill-posed problems. **94j:47018**
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Terepeta, Malgorzata Method of solving certain equation in Banach algebras. (English, Russian and Polish summaries) **94m:47023**
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Pereverzev, S. V. Complexity of the Fredholm problem of second kind. **94i:65132**
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47A53 (Semi-) Fredholm operators; index theories [see also 58B10, 58G12]

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Ben-Artzi, A. (*with* Gohberg, Israel; Kaashoek, M. A.) Exponentially dominated infinite block matrices of finite Kronecker rank. (English summary) **94k:47059**
Böttcher, Albrecht Toeplitz operators on the disk with locally sectorial symbols. **94i:47040**
Brüning, Jochen (*with* Lesch, Matthias) Kähler-Hodge theory for conformal complex cones. **94i:58189**
Chen, Goong (*with* Sun, Shun Hua) Augmenting a Fredholm operator of zero index to achieve invertibility for elliptic boundary value problems. (English summary) **94c:47071**
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Chistyakov, V. F. Algebrodifferential operators with a finite-dimensional kernel. (Russian. Russian summary) **94m:34170**
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— An extension of the Heinz-Kato theorem. **94e:47034**

— *see also* **Fujii, Masatoshi, 94d:47005**
Hersonsky, Sa'ar *see* **Friedland, Shmuel, 94c:46100**
Magajna, Bojan Matrix means. (Slovenian. English and Slovenian summaries)
Mathias, Roy An arithmetic-geometric-harmonic mean inequality involving Hadamard products. (English summary) **94b:15019**
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Schmidt, Jochen W. Positive, monotone, and S-convex C^1-histopolation on rectangular grids. (English and German summaries) **94c:41026**
Zhu, Jian Min Some results on analytic operator functions. (Chinese. English summary) **94i:47029**

47A65 Structure theory

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Benhida, Chafiq Espaces duaux et propriétés ($A_{m,n}$). (English summary) [Dual spaces and properties ($A_{m,n}$)] **94m:47035**
Guinand, Paul S. (*with* Marcoux, Laurent) Between the unitary and similarity orbits of normal operators. (English summary) **94i:47031a**
Herrero, Domingo Antonio A note on iterated similarities of operators. **94k:47029**
Kriete, Thomas L., III Isometries from the Laguerre shift. **94f:47022**
Marcoux, Laurent The closure of the $(\mathscr{U}+\mathscr{K})$-orbit of shift-like operators. (English summary) **94i:47031b**
— *see also* **Guinand, Paul S., 94i:47031a**
Ouannasser, M. Sur les contractions dans la classe A_n. [On contractions in the class A_n] **94j:47028**

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Bercovici, Hari Commuting power-bounded operators. **94j:47008**
— (*with* Li, Wing Suet) Isometric functional calculus on the bidisk and invariant subspaces. **94i:47010**
Chevreau, Bernard (*with* Li, Wing Suet) Sur certaines représentations de $H^\infty(G)$ et la réflexivité d'algèbres d'opérateurs associées. (English and French summaries) [On certain representations of $H^\infty(G)$ and the reflexivity of associated operator algebras] **94d:47004**
Fong, Che Kao (*with* Jiang, Chun Lan) Approximation by Jordan type operators. **94d:47011**
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47A66 (Non)quasitriangular, (non)quasidiagonal operators

Davidson, Kenneth R. (*with* Salinas, Norberto) Joint quasitriangularity of essentially unitary pairs. **94j:47029**
Salinas, Norberto *see* **Davidson, Kenneth R., 94j:47029**
Voiculescu, D. V. Around quasidiagonal operators. **94e:47029**

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Guinand, Paul S. (*with* Marcoux, Laurent) Between the unitary and similarity orbits of normal operators. (English summary) **94i:47031a**
Marcoux, Laurent The closure of the $(\mathscr{U}+\mathscr{K})$-orbit of shift-like operators. (English summary) **94i:47031b**
— *see also* **Guinand, Paul S., 94i:47031a**

47A67 Representation theory

Bespalov, Yu. N. Sets of orthoprojectors connected by relations. (Russian. Russian and Ukrainian summaries) **94d:47014**

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Vernik, A. N. A multiplication theorem for characteristic functions, and spectral representations of completely nonunitary isometric operators. (Russian) **94a:47013**

47A68 Factorization theory (including Wiener-Hopf and spectral factorizations)

Bastos, M. Amélia (*with* dos Santos, António F.) Generalized factorization for a class of 2×2 matrix functions with nonrational entries. (English summary) **94d:47015**
Câmara, M. C. (*with* Lebre, A. B.; Speck, F.-O.) Meromorphic factorization, partial index estimates and elastodynamic diffraction problems. (English summary) **94j:47030**
— (*with* Lebre, A. B.; Speck, F.-O.) Generalised factorisation for a class of Jones form matrix functions. (English summary) **94d:47016**
Fel'dman, I. A. (*with* Gohberg, Israel; Krupnik, N. Ya.) A method of explicit factorization of matrix functions and applications. (English summary) **94m:47036**
Gohberg, Israel (*with* Ran, André C. M.) On pseudo-canonical factorization of rational matrix functions. (English summary) **94b:47027**
— *see also* **Fel'dman, I. A.; et al., 94m:47036**
Krupnik, N. Ya. *see* **Fel'dman, I. A.; et al., 94m:47036**
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Speck, F.-O. *see* **Câmara, M. C.; et al., 94d:47016** *and* **94j:47030**
Todorov, T. S. A factorization property of staircase operators. **94m:47037**

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Adukov, V. M. Wiener-Hopf operators on a subsemigroup of a discrete torsion free abelian group. (English summary) **94c:47037**
Ball, Joseph A. (*with* Kim, Jeongook; Rodman, Leiba; Verma, Madanpal S.) Minimal-degree coprime factorizations of rational matrix functions. (English summary) **94c:47019**
Ben-Artzi, A. (*with* Gohberg, Israel; Kaashoek, M. A.) A time-varying generalization of the canonical factorization theorem for Toeplitz operators. (English summary) **94j:47040**
Budylin, A. M. (*with* Buslaev, V. S.) Quasiclassical integral equations with slowly decreasing kernels on bounded domains. (Russian. Russian summary) **94b:47063**
Buslaev, V. S. *see* **Budylin, A. M., 94b:47063**
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Karlovich, Yu. I. (*with* Kravchenko, V. G.; Litvinchuk, G. S.) Invertibility of functional operators in Banach spaces. (Russian. Russian summary) **94e:47041**
Kim, Jeongook *see* **Ball, Joseph A.; et al., 94c:47019**
Kravchenko, V. G. *see* **Karlovich, Yu. I.; et al., 94e:47041**
Krupnik, Ilya (*with* Markus, Alexander S.; Matsaev, V. I.) Factorization of matrix functions and characteristic properties of the circle. (English summary) **94h:47021**
Lebre, A. B. (*with* Meister, E.; Teixeira, F. S.) Some results on the invertibility of Wiener-Hopf-Hankel operators. (English summary) **94m:47055**
Litvinchuk, G. S. *see* **Karlovich, Yu. I.; et al., 94e:47041**
Markus, Alexander S. (*with* Matsaev, V. I.) Factorization of a selfadjoint nonanalytic operator function. II. Single spectral zone. (English summary) **94e:47026**
— *see also* **Krupnik, Ilya; et al., 94h:47021**
Matsaev, V. I. *see* **Markus, Alexander S., 94e:47026** *and* **Krupnik, Ilya; et al., 94h:47021**
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47A70 (Generalized) eigenfunction expansions; rigged Hilbert spaces

Berezanskiĭ, Yu. M. (*with* Konstantinov, A. Yu.) Expansion in eigenvectors of multiparameter spectral problems. (English and Ukrainian summaries) **94g:47023**
Gubreev, G. M. A class of bases of Hilbert spaces and the problem of similarity of Volterra operators. (Russian) **94h:47032**
— On a class of unconditional bases of Hilbert spaces and on a problem of the similarity of dissipative Volterra operators. (Russian. Russian summary) **94h:47033**
Kauffman, Robert M. Expansion of continuous spectrum operators in terms of eigenprojections. **94g:47024**
— Finite eigenfunction approximations for continuous spectrum operators. (English summary) **94e:47030**
Konstantinov, A. Yu. *see* **Berezanskiĭ, Yu. M., 94g:47023**
Trooshin, Igor Abel summability of the series of eigen- and associated functions of the integral and differential operators. (*see* **94b:47001**)
Trushin, I. Yu. On the summability of expansions in eigenfunctions of differential and integral operators. (Russian. Russian summary) **94j:47031**

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Ali, S. Twareque (*with* Antoine, Jean-Pierre; Gazeau, Jean-Pierre) Continuous frames in Hilbert space. (English summary) **94e:81107**
Antoine, Jean-Pierre *see* **Ali, S. Twareque; et al., 94e:81107**
Arlinskiĭ, Yu. M. (*with* Kaplan, V. L.) Selfadjoint biextensions in rigged Hilbert spaces. (Russian) **94a:47005**
Balaev, M. K. *see* **Yakubov, S. Ya., 94f:47019**
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Božinov, Nikolaĭ S. Necessary and sufficient condition for the reconstruction of functions from their coefficients in the root expansion of a nonlocal Sturm-Liouville operator. (Russian) **94c:34122**
Budaev, V. D. Necessary conditions for the unconditional basis property of systems of root functions of nonselfadjoint differential operators. (Russian) **94f:47052**
Gadzhiev, G. A. ★ Многопараметрическая спектральная теория в гильбертовом пространстве. (Russian. Russian summary) [Multiparameter spectral theory in Hilbert space] **94f:47023**
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Gorelov, V. A. On systems consisting of a finite and an infinite number of root functions of different boundary value problems. (Russian) **94g:47060**
Gubreev, G. M. (*with* Ignatenko, T. R.) A class of orthogonalizers of families of exponentials with real frequencies. (Russian. Russian and Ukrainian summaries) **94f:42015**
Guseĭnov, G. Sh. Spectral analysis of second-order multiparameter differential equations with periodic coefficients. (Russian. Russian summary) **94k:34157**
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Inayat-Hussain, A. A. (*with* Zorzan, C.) The Laplace transform and spectral representations of polynomial operator pencils. (English summary) **94i:47111**
Isaev, H. Glimpses of multiparameter spectral theory. **94b:47028**
Kakabadze, L. V. Multiple basis property of a perturbed system of functions. (Russian. English and Georgian summaries) **94a:47043**
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Kon, Mark A. Summation of eigenfunction expansions. **94a:35083**
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Matsaev, V. I. (*with* Spigel, Efim) Conditions for eigenvectors of a selfadjoint operator-function to form a basis. (English summary) **94g:47016**
Möller, Manfred Orthogonal systems of eigenvectors and associated vectors for symmetric holomorphic operator functions. (English summary) **94h:47022**
Poerschke, Thomas (*with* Stolz, Günter) On eigenfunction expansions and scattering theory. **94a:47010**
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47A75 Eigenvalue problems [see also 49Rxx]

Aimar, Marie-Thérèse (*with* Intissar, Abdelkader; Paoli, Jean-Martin) Densité des vecteurs propres généralisés d'une classe d'opérateurs compacts non auto-adjoints et applications. (English summary) [Density of the generalized eigenvectors of a class of nonselfadjoint compact operators, and applications] **94k:47030**
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Cai, Jun Zi Integral representation of eigenvalue problems for selfadjoint operators. (Chinese. English and Chinese summaries)
Ditkin, V. V. On the root subspaces of a two-parameter spectral problem. (Russian) **94m:47038**
Fujishiro, Issei *see* **Ikebe, Yasuhiko; et al., 94g:47025**
Harada, Minoru *see* **Ikebe, Yasuhiko; et al., 94g:47025**
Hile, G. N. (*with* Xu, Zhen Yuan[1]) Inequalities for sums of reciprocals of eigenvalues. **94k:47031**
Ikebe, Yasuhiko (*with* Kikuchi, Yasushi; Fujishiro, Issei; Asai, Nobuyoshi; Takanashi, Kouichi; Harada, Minoru) The eigenvalue problem for infinite compact complex symmetric matrices with application to the numerical computation of complex zeros of $J_0(z) - iJ_1(z)$ and of Bessel functions $J_m(z)$ of any real order m. (English summary) **94g:47025**
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Isaev, H. Glimpses of multiparameter spectral theory. **94b:47028**
Kikuchi, Yasushi *see* **Ikebe, Yasuhiko; et al., 94g:47025**
Lupo, Daniela (*with* Micheletti, A. M.) On multiple eigenvalues of selfadjoint compact operators. **94e:47031**
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Sun, Wan Gui (*with* Wang, Hai Yan[1]) Eigenvalue problems for unbounded linear operators. (Chinese. English and Chinese summaries) **94a:47029**
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Ahués, Mario (*with* Hocine, Farida) Finite element error bounds in spectral approximations. (English summary) (*see* **94e:00020**)
Aràndiga, F. (*with* Caselles, Vicent) Approximations of positive operators and continuity of the spectral radius. II. **94d:47036**
Arov, D. Z. (*with* Grossman, L. Z.) Scattering matrices in the theory of unitary extension of isometric operators. (German summary) **94i:47019**
Binding, P. A. (*with* Najman, Branko) A variational principle in Krein space. (English summary) **94f:47040**
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Dolzhenko, I. V. On solutions of an equation of infinite order with constant coefficients. (Russian) **94a:47014**
Dzhabarzade, R. M. On the spectral theory of operator pencils. On classes of operators σ_p. (Russian) **94g:47014**
Fuhrman, Marco Sums of linear operators of parabolic type: a priori estimates and strong solutions. (English summary) **94m:47020**
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Grubb, A. (*with* Sharma, Chandra Shekhar) P-invertibility of matrices. (English summary) **94c:15001**
Han, Yan Bin Eigenvalues of higher-dimensional positive definite kernels. (Chinese. Chinese summary) **94i:47079**
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Ikramov, Kh. D. ★ Несимметричная проблема собственных значений. (Russian. Russian summary) [The nonsymmetric eigenvalue problem] **94f:65005**
Klein, Peter P. Including eigenvalues of the plane Orr-Sommerfeld problem. (English summary) **94i:76029**
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Langer, Heinz (*with* Najman, Branko) Leading coefficients of the eigenvalues of perturbed analytic matrix functions. (English summary) **94e:47025**
Lax, Peter D. The existence of eigenvalues of integral operators. **94i:47080**
Lee, Gyou-Bong Some convergence rates for eigenvalues of intermediate operators. **94i:65066**
Li, Ren Cang Norms of certain matrices with applications to variations of the spectra of matrices and matrix pencils. (English summary) **94c:15040**
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Malamud, M. M. Some classes of extensions of a Hermitian operator with lacunae. (Russian. Russian and Ukrainian summaries) **94c:47036**
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Pian, J. Compact selfadjoint semilinear operators on a quaternionic Hilbert space. (English summary) **94d:47003**
Raman, S. Ganapathi (*with* Rao, R. Vittal) Eigenvalues of integral operators on $L_2(I)$ given by analytic kernels. (English summary) **94i:47081**
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Zhuk, P. F. Asymptotic behavior of the s-step steepest descent method in eigenvalue problems in a Hilbert space. (Russian. Russian summary) **94m:65095**

47A80 Tensor products of operators [see also 46M05]

Geiss, Stefan Antisymmetric tensor products of nuclear operators on Banach spaces. **94k:47032**
Hou, Jin Chuan On the tensor products of operators. (English summary) **94h:47034**

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Defant, Andreas (*with* Floret, Klaus) Tensornorm techniques for the (DF)-space problem. (English summary) **94c:46142**
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Floret, Klaus *see* **Defant, Andreas, 94c:46142**
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Lee, Kee-An (*with* Lee, Hong Jae; Jeon, Won-Kee) A note on the elliptic differential operators. **94h:58158**
López Molina, J. A. (*with* Rivera Ortún, María José) Localization of bounded sets in the tensor products of Lapresté. (English summary) **94g:46084**
Lopushanskii, O. V. Operational calculus of tensor-commuting operators on spaces of ultrasmooth vectors. (Ukrainian. Ukrainian summary) **94d:47039**
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Tylli, Hans-Olav *see* **Edmunds, David E., 94k:47033**
Zhu, Jun[2] Tensor products of hyperreflexive subspaces. (Chinese. English and Chinese summaries) **94m:47085**

47A99 None of the above, but in this section

Barnes, Bruce A. Linear operators with a normal factorization through Hilbert space. **94h:47035**
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Catepillán, Ximena (*with* Ptak, Marek; Szymański, Wacław) Multiple canonical decompositions of families of operators and a model of quasinormal families. (English summary) **94j:47032**
Constantinescu, Tiberiu Factorization of positive-definite kernels. (English summary) **94h:47036**
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Hässelbarth, W. (*with* Ruch, Ernst) On the extension of linear contractions: some results of the Hahn-Banach type. (English summary) **94a:47031**
Jibril, Adnan A. S. On almost unitarily equivalent operators. (English and Arabic summaries)
Kubrusly, C. S. Similarity to contractions and weak stability. (English summary) **94m:47039**
Liu, Ying Fan On width-characteristic of monomorphic bounded and regular surjective linear operators. (English summary) **94e:47032**
Pacheco Redondo, Wilson Rodolfo On similarity to contractions. (Spanish. English and Spanish summaries) **94c:47027**
Przeworska-Rolewicz, D. Generalized Bernoulli operator and Euler-Maclaurin formula. **94j:47033**
— Stability of nonhomogeneous linear systems. (English summary) **94i:47033**
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Anoussis, Michalis (*with* Katsoulis, E. G.; Moore, Robert Laurens; Trent, T. T.) Interpolation problems for Hilbert-Schmidt operators in reflexive algebras. **94i:47069**

Arora, S. C. (*with* Bala, Pawan) On spectra of operators of finite strict multiplicity. (English summary) **94c:47056**
— (*with* Aggarwal, Kanta) On direct sum of pre-reflexive operators. (English summary) **94e:47056**
Azoff, E. A. (*with* Shehada, H. A.) Literal embeddings of linear spaces of operators. (English summary) **94i:47068**
Bala, Pawan *see* **Arora, S. C., 94c:47056**
Ball, Joseph A. (*with* Fanney, Thomas R.) Closability of differential operators and real sub-Jordan operators. (English summary) **94g:47038**
Ben El Mamoune, Idriss (*with* Benoît, Éric; Lobry, Claude) Une version non standard du théorème de F. Riesz. (English and French summaries) [A nonstandard version of a theorem of F. Riesz] **94b:03105**
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Bercovici, Hari (*with* Foias, Ciprian; Tannenbaum, Allen) Continuity of the spectrum on closed similarity orbits. (English summary) **94j:47003**
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Carro, María J. (*with* Cerdà, Joan) On the interpolation of analytic families of operators. (English summary) **94b:46102**
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Ding, Lifeng Separating vectors and reflexivity. (English summary) **94a:47075**
Drewnowski, Lech (*with* Florencio, Miguel; Paúl, Pedro J.) Uniform boundedness of operators and barrelledness in spaces with Boolean algebras of projections. **94m:46004**
Du, Qiang *see* **Ding, Jiu; et al., 94d:65036**
Duan, Yan Zheng (*with* Chen, Shu Tao) On best approximation operators in Orlicz spaces. (English summary) **94f:47035**
Duggal, B. P. On nth roots of normal contractions. **94f:47025**
Ellis, Robert Lee (*with* Gohberg, Israel) Orthogonal systems related to infinite Hankel matrices. (English summary) **94e:42027**
— (*with* Gohberg, Israel; Lay, David C.) Extensions with positive real part. A new version of the abstract band method with applications. (English summary) **94a:47024**
Esterle, J. (*with* Strouse, E.; Zouakia, F.) Closed ideals of the algebra of absolutely convergent Taylor series. (English summary) **94k:43002**
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Operator Theory ★ Operator extensions, interpolation of functions and related topics. **94e:47001**

Operator extensions, interpolation of functions and related topics ★ Operator extensions, interpolation of functions and related topics. **94e:47001**
Timişoara ★ Operator extensions, interpolation of functions and related topics. **94e:47001**

47B60 Operators on ordered spaces

Abramovich, Y. A. New classes of spaces on which compact operators satisfy the Daugavet equation. **94a:47061**
Ansari, S. I. Essential disjointness and the Daugavet equation. (English summary) **94j:47055**
Feldman, W. A. Sublinear operators between Banach lattices. (English summary) **94m:47073**
Huijsmans, C. B. (*with* Luxemburg, W. A. J.) An alternative proof of a Radon-Nikodým theorem for lattice homomorphisms. (English summary) **94a:47062**
— (*with* de Pagter, Bernardus) Some remarks on disjointness preserving operators. (English summary) **94a:47063**
— (*with* Wickstead, A. W.) The inverse of band preserving and disjointness preserving operators. **94g:47047**
Lepkes, Guido Kompakte Operatoren auf lokal konvex-soliden Riesz-Räumen. [Compact operators on locally convex solid Riesz spaces] **94i:47057**
Luxemburg, W. A. J. *see* **Huijsmans, C. B., 94a:47062**
de Pagter, Bernardus *see* **Huijsmans, C. B., 94a:47063**
Şerban-Tofan, Doina The representation of some (ν)-bounded linear operators by Stieltjes type vector integrals. (English summary) **94b:47045**
Wickstead, A. W. *see* **Huijsmans, C. B., 94g:47047**
Zhang, Xiao-Dong Decomposition theorems for disjointness preserving operators. (English summary) **94i:47058**

Items with secondary classifications in 47B60

Abramovich, Y. A. (*with* Arenson, E. L.; Kitover, A. K.) ★ Banach $C(K)$-modules and operators preserving disjointness. (English summary) **94d:47027**
— (*with* Wickstead, A. W.) The regularity of order bounded operators into $C(K)$. II. **94h:47067**
Angenent, Sigurd B. *see* **Clément, Philippe P.; et al., 94c:47060**
Arendt, Wolfgang (*with* Voigt, Jürgen) Domination of uniformly continuous semigroups. (English summary) **94f:47042**
— Vector-valued versions of some representation theorems in real analysis. **94m:46063**
Arenson, E. L. *see* **Abramovich, Y. A.; et al., 94d:47027**
Bartoszek, Wojciech Riesz decomposition property implies asymptotic periodicity of positive and constrictive operators. **94d:47037**
Buskes, G. J. H. M. The Hahn-Banach theorem surveyed. **94h:46007**
Clément, Philippe P. (*with* Heijmans, Henk J. A. M.; Angenent, Sigurd B.; van Duijn, Cornelis Johannes; de Pagter, Bernardus) ★ Однопараметрические полугруппы. (Russian. Russian summary) [One-parameter semigroups] **94c:47060**
Cristescu, Romulus (*with* Grigore, Gheorghe; Niculescu, Constantin P.; Pâltineanu, Gavril; Popa, Nicolae; Vuza, Dan Tudor) ★ Structuri de ordine în analiza funcţională. Vol. 3. (Romanian) [Order structures in functional analysis. Vol. 3] **94j:46001**
van Duijn, Cornelis Johannes *see* **Clément, Philippe P.; et al., 94c:47060**
Gajda, Zbigniew (*with* Smajdor, Andrzej; Smajdor, Wilhelmina) A theorem of the Hahn-Banach type and its applications. (English summary) **94d:46008**
Grigore, Gheorghe *see* **Cristescu, Romulus; et al., 94j:46001**
Gürçay, Haşmet Disjointness preserving operator semigroups on $C(X, \mathbf{C}^n)$. **94h:47056**
Heijmans, Henk J. A. M. *see* **Clément, Philippe P.; et al., 94c:47060**
Holderrieth, Albrecht Multiplicative perturbation of resolvent positive operators. **94f:47046**
Jang-Lewis, Ruey-Jen On the minimax property of positive, irreducible, eventually compact operators. (English summary) **94b:47046**
Kitover, A. K. *see* **Abramovich, Y. A.; et al., 94d:47027**
(Krein, S. G.) *see* **Clément, Philippe P.; et al., 94c:47060**
Makarov, B. M. (*with* Ulymzhiev, M. D.) Lattices of stably regular operators. (Russian. English and Russian summaries) **94e:47043**
van Neerven, J. M. A. M. ★ The adjoint of a semigroup of linear operators. **94j:47059**
Ng, Chi-Keung *see* **Wong, Yau-Chuen, 94h:46032**
Niculescu, Constantin P. Ideals associated to Boolean algebras of projections. **94b:46075**
— *see also* **Cristescu, Romulus; et al., 94j:46001**
Orlicz, Władysław (*with* Wnuk, Witold) Absolutely continuous and modularly continuous operators defined on spaces of measurable functions. (English summary) **94c:47049**
de Pagter, Bernardus *see* **Clément, Philippe P.; et al., 94c:47060**
Pâltineanu, Gavril *see* **Cristescu, Romulus; et al., 94j:46001**
(Piskarëv, S. I.) *see* **Clément, Philippe P.; et al., 94c:47060**
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Smajdor, Wilhelmina *see* **Gajda, Zbigniew; et al., 94d:46008**
Tikhonov, O. E. Trace inequalities for spaces in spectral duality. (English summary) **94d:46060**
Ulymzhiev, M. D. *see* **Makarov, B. M., 94e:47043**
(Vasil'ev, V. V.) *see* **Clément, Philippe P.; et al., 94c:47060**
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Wnuk, Witold *see* **Orlicz, Władysław, 94c:47049**
Wong, Yau-Chuen (*with* Ng, Chi-Keung) Half-full injection property and half-decomposable surjection property of Banach lattices. (English summary) **94h:46032**
Zhang, Xiao-Dong On spectral properties of positive operators. (English summary) **94b:47047**

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47B65 Positive operators and order-bounded operators

Abramovich, Y. A. (*with* Aliprantis, Charalambos D.; Burkinshaw, O.) On the spectral radius of positive operators. **94a:47064**
— (*with* Wickstead, A. W.) The regularity of order bounded operators into $C(K)$. II. **94h:47067**
Aliprantis, Charalambos D. *see* **Abramovich, Y. A.; et al., 94a:47064**
Alpay, Şafak (*with* Turan, Bahri) Order properties of the adjoint. (English and Turkish summaries) **94m:47074**
Aràndiga, F. (*with* Caselles, Vicent) Approximations of positive operators and continuity of the spectral radius. **94d:47035**
— (*with* Caselles, Vicent) Approximations of positive operators and continuity of the spectral radius. II. **94d:47036**
Bartoszek, Wojciech Riesz decomposition property implies asymptotic periodicity of positive and constrictive operators. **94d:47037**
Burkinshaw, O. *see* **Abramovich, Y. A.; et al., 94a:47064**
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Chen, Tian Ping Spectral norms of nonnegative completely continuous operators. (Chinese. Chinese summary) **94e:47048**
Jang-Lewis, Ruey-Jen On the minimax property of positive, irreducible, eventually compact operators. (English summary) **94b:47046**
— (*with* Victory, Harold Dean, Jr.) On nonnegative solvability of linear operator equations. (English summary) **94m:47075**
Kurkalova, L. A. Some conditions for weak indecomposability of operators. (Russian. Tajiki summary) **94k:47057**
Nagel, Rainer Order in pure and applied functional analysis. (English summary) **94d:47038**
Turan, Bahri *see* **Alpay, Şafak, 94m:47074**
Victory, Harold Dean, Jr. *see* **Jang-Lewis, Ruey-Jen, 94m:47075**
Weber, Martin On the positiveness of the inverse operator. **94k:47058**
Wickstead, A. W. *see* **Abramovich, Y. A., 94h:47067**
Zhang, Xiao-Dong On spectral properties of positive operators. (English summary) **94b:47047**

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Arendt, Wolfgang (*with* Bukhvalov, A. V.) Integral representations of resolvents and semigroups. (English summary) **94k:47062**
Baron, Karol (*with* Lasota, Andrzej) Asymptotic properties of Markov operators defined by Volterra type integrals. (English summary) **94h:47053**
Bochenek, Jan Some spectral properties of positive linear operators. **94h:47138**
Brunel, Antoine Théorème ergodique pour les opérateurs positifs à moyennes bornées sur les espaces L_p ($1 < p < \infty$). (English summary) [Ergodic theorem for mean-bounded positive operators on L_p-spaces ($1 < p < \infty$)] **94g:47010**
— (*with* Horowitz, Shlomo; Lin, Michael) On subinvariant measures for positive operators in L_1. (English and French summaries) **94b:47013**
Bukhvalov, A. V. *see* **Arendt, Wolfgang, 94k:47062**
Chistyakov, Aleksandr Vladimirovich Continuity with respect to measure of operators that preserve the Yosida-Hewitt decomposition. (Russian. Russian summary) **94e:47040**
Corach, Gustavo (*with* Porta, Horacio A.; Recht, Lázaro) Geodesics and operator means in the space of positive operators. (English summary) **94c:46114**
Cristescu, Romulus (*with* Grigore, Gheorghe; Niculescu, Constantin P.; Pâltineanu, Gavril; Popa, Nicolae; Vuza, Dan Tudor) ★ Structuri de ordine în analiza funcţională. Vol. 3. (Romanian) [Order structures in functional analysis. Vol. 3] **94j:46001**
Du, Hong Ke A characterization of positive constrictive operators. (English summary) **94i:47017**
Grigore, Gheorghe *see* **Cristescu, Romulus; et al., 94j:46001**
Horowitz, Shlomo *see* **Brunel, Antoine; et al., 94b:47013**
Huijsmans, C. B. (*with* Wickstead, A. W.) The inverse of band preserving and disjointness preserving operators. **94g:47047**
— *see also* **Positive operators and semigroups on Banach lattices, 94c:47002**
Jarchow, Hans Absolutely summing composition operators. **94h:47057**
Lasota, Andrzej *see* **Baron, Karol, 94h:47053**
Lavrič, Boris Operator characterizations of Banach lattices with p-superadditive or p-subadditive norm. (English and Serbo-Croatian summaries) **94i:46027**
Lepkes, Guido Kompakte Operatoren auf lokal konvex-soliden Riesz-Räumen. [Compact operators on locally convex solid Riesz spaces] **94i:47057**
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(Luxemburg, W. A. J.) *see* **Positive operators and semigroups on Banach lattices, 94c:47002**
Makarov, B. M. (*with* Ulymzhiev, M. D.) Lattices of stably regular operators. (Russian. English and Russian summaries) **94e:47043**
Marek, Ivo (*with* Szyld, Daniel B.) Iterative and semi-iterative methods for computing stationary probability vectors of Markov operators. (English summary) **94a:65030**
Ménard, E. (*with* Troallic, Jean-Pierre) Représentations de semigroupes par des opérateurs linéaires positifs sur $\mathscr{C}(X)$. [Representations of semigroups by positive linear operators on $\mathscr{C}(X)$] **94i:47063**
van Neerven, J. M. A. M. Abstract multiplication semigroups. **94e:47052**
Niculescu, Constantin P. *see* **Cristescu, Romulus; et al., 94j:46001**
Oukili, Hassan Sur la convergence forte des moyennes des opérateurs affines positifs. (English and French summaries) [On the strong convergence of the means of positive affine operators] **94b:47015**
Pâltineanu, Gavril *see* **Cristescu, Romulus; et al., 94j:46001**
Popa, Nicolae *see* **Cristescu, Romulus; et al., 94j:46001**
Porta, Horacio A. *see* **Corach, Gustavo; et al., 94c:46114**
Räbiger, Frank Stability and ergodicity of dominated semigroups. II. The strong case. **94k:47014**
— Stability and ergodicity of dominated semigroups. I. The uniform case. **94i:47066**
Recht, Lázaro *see* **Corach, Gustavo; et al., 94c:46114**
Schneider, Hans *see* **T'an, Pi Hsin, 94h:15011**
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Szyld, Daniel B. *see* **Marek, Ivo, 94a:65030**

T'an, Pi Hsin (*with* Schneider, Hans) On the core of a cone-preserving map. (English summary) **94h:15011**
Troallic, Jean-Pierre *see* **Ménard, E., 94i:47063**
Ulymzhiev, M. D. *see* **Makarov, B. M., 94e:47043**
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Wnuk, Witold Remarks on J. R. Holub's paper concerning Dunford-Pettis operators. (English summary) **94i:46028**
Zaharopol, Radu On the ergodic theorem of E. Hopf. (English summary) **94f:47010**
Zerner, Martin What can the theory of positive operators do for you? (*see* **94b:92001**)
Zhang, Hong Wei² (*with* Zhu, Guang Tian; Liang, Ben Zhong) On the stability of positive C_0-semigroup of operators on $L^p(\Omega)$, $1 \le p \le \infty$. (English summary) **94g:47049**
Zhu, Guang Tian *see* **Zhang, Hong Wei²; et al., 94g:47049**
Zima, M. A theorem on the spectral radius of the sum of two operators and its application. (English summary) **94j:47006**

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Curaçao ★ Positive operators and semigroups on Banach lattices. **94c:47002**
Order structures in functional analysis *see* **Cristescu, Romulus; et al., 94j:46001**
Positive operators and semigroups on Banach lattices ★ Positive operators and semigroups on Banach lattices. **94c:47002**

47B80 Random operators [see also 60H25]

Figotin, Alexander *see* **Pastur, L. A., 94h:47068**
Pastur, L. A. (*with* Figotin, Alexander) ★ Spectra of random and almost-periodic operators. **94h:47068**
— Eigenvalue distribution of random operators and matrices. (English summary) **94a:47065**
Verma, Ram U. Stochastic projectional schemes involving linear random operator equations. (English summary) **94j:47056**

Items with secondary classifications in 47B80

Bai, Yan Qin Extension theorems for random linear operators. (Chinese. English and Chinese summaries) **94d:47069**
Dykema, K. J. *see* **Voiculescu, D. V.; et al., 94c:46133**
Forrester, P. J. Log-gases, random matrices and the Fisher-Hartwig conjecture. (English summary) **94d:82015**
Girko, V. L. Asymptotics of eigenvalues of symmetric random matrices. (Russian. Russian summary) **94j:15017**
Grinshpun, V. Z. Sufficient conditions for exponential localization for an infinite-order finite-difference operator with random potential. (Russian. English and Ukrainian summaries) **94j:82009**
Khorunzhii, A. M. (*with* Pastur, L. A.) Limits of infinite interaction radius, dimensionality and the number of components for random operators with off-diagonal randomness. (English summary) **94g:82024**
Knill, Oliver Isospectral deformations of random Jacobi operators. (English summary) **94j:58136**
Nagao, Taro (*with* Slevin, Keith) Nonuniversal correlations for random matrix ensembles. (English summary) **94d:82029**
Nica, Alexandru Asymptotically free families of random unitaries in symmetric groups. (English summary) **94b:46100**
— *see also* **Voiculescu, D. V.; et al., 94c:46133**
Pastur, L. A. *see* **Khorunzhii, A. M., 94g:82024**
Slevin, Keith *see* **Nagao, Taro, 94d:82029**
Sun, Feng Zhu Kotani theory for stochastic Dirac operators. (English summary) **94i:34160**
Voiculescu, D. V. (*with* Dykema, K. J.; Nica, Alexandru) ★ Free random variables. **94c:46133**

47B99 None of the above, but in this section

Arora, S. C. (*with* Bala, Pawan) On spectra of operators of finite strict multiplicity. (English summary) **94c:47056**
Bala, Pawan *see* **Arora, S. C., 94c:47056**
Ben-Artzi, A. (*with* Gohberg, Israel; Kaashoek, M. A.) Exponentially dominated infinite block matrices of finite Kronecker rank. (English summary) **94k:47059**
Gohberg, Israel *see* **Ben-Artzi, A.; et al., 94k:47059**
Goodman, T. N. T. (*with* Micchelli, Charles A.; Ward, J. D.) Spectral radius formulas for subdivision operators. (English summary) **94m:47076**
Horwitz, L. P. Some spectral properties of anti-selfadjoint operators on a quaternionic Hilbert space. (English summary) **94e:47049**
Kaashoek, M. A. *see* **Ben-Artzi, A.; et al., 94k:47059**
Khan, S. (*with* Pearson, D. B.) Subordinacy and spectral theory for infinite matrices. (English summary) **94a:47066**
Khasso, Mukhammad Shami *see* **Kuleshov, A. A., 94k:47060**
Kuleshov, A. A. (*with* Khasso, Mukhammad Shami) The classical moment problem and some problems in the theory of linear selfadjoint operators. (Russian. English and Russian summaries) **94k:47060**
Lopushanskiĭ, O. V. Operational calculus of tensor-commuting operators on spaces of ultrasmooth vectors. (Ukrainian. Ukrainian summary) **94d:47039**
Micchelli, Charles A. *see* **Goodman, T. N. T.; et al., 94m:47076**
Mlak, W. (*with* Słociński, M.) Quantum phase and circular operators. **94d:47040**
— Notes on circular operators. I, II, III, IV. **94d:47041**
— Time dependent circular operators. **94d:47042**
Molnár, Lajos A condition for a function to be a bounded linear operator. (English summary) **94k:47061**
Pearson, D. B. *see* **Khan, S., 94a:47066**
Petrović, Srdjan On the similarity of centered operators to contractions. (English summary) **94h:47069**
Pichugov, S. A. Translation invariant operators in linear metric spaces. (Russian summary) **94a:47067**
Słociński, M. *see* **Mlak, W., 94d:47040**
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Wu, Jun Convergence of sequences of projection operators in Banach spaces. (Chinese)
Zarrabi, Mohamed Contractions à spectre dénombrable et propriétés d'unicité des fermés dénombrables du cercle. (English and French summaries) [Contractions with countable spectrum and uniqueness properties of closed countable subsets of the circle] **94b:47048**

Items with secondary classifications in 47B99

Adamyan, V. M. Scattering matrices for microschemes. (English summary) **94m:47016**
Alpay, Daniel A theorem on reproducing kernel Hilbert spaces of pairs. (English summary) **94b:46035**
Baier, A. (*with* Glaeske, H.-J.) The Laplace transformation on certain spaces of generalized functions. (English summary) **94h:46064**
Bellissard, Jean The gap labelling theorem: the case of automatic sequences. (English summary) (*see* **94m:00033**)
Bercovici, Hari On the iterates of a completely nonunitary contraction. **94g:47019**
Bergelson, Vitaly (*with* Kornfel'd, I. P.; Mityagin, Boris) Unitary $\mathbf{Z}^d$-actions with continuous spectrum. **94a:47008**
Bespalov, Yu. N. Sets of orthoprojectors connected by relations. (Russian. Russian and Ukrainian summaries) **94d:47014**
Cotlar, Mischa (*with* Sadosky, Cora) Transference of metrics induced by unitary couplings, a Sarason theorem for the bidimensional torus, and a Sz.-Nagy-Foias theorem for two pairs of dilations. (English summary) **94g:47007**
Curto, Raúl E. (*with* Vasilescu, Florian-Horia) Standard operator models in the polydisc. **94k:47008**
Dehay, Dominique Shift group for a weakly harmonizable process on a locally compact abelian group. **94k:60059**
Duchoň, Miloslav (*with* Zajac, Michal) Convolution of spectral mappings. (English summary) **94e:46086**
Edward, Julian Jacobi matrices and the spectrum of the Neumann operator on a family of Riemann surfaces. (English summary) **94e:58140**
Fan, Peng (*with* Fong, Che Kao) An intrinsic characterization for zero-diagonal operators. (English summary) **94i:47032**
Fong, Che Kao (*with* Jiang, Chun Lan) On irreducible operators. (English summary) **94b:47023**
— *see also* **Fan, Peng, 94i:47032**
Gadzhiev, G. A. ★ Многопараметрическая спектральная теория в гильбертовом пространстве. (Russian. Russian summary) [Multiparameter spectral theory in Hilbert space] **94f:47023**
Glaeske, H.-J. *see* **Baier, A., 94h:46064**
Gohberg, Israel (*with* Kaashoek, M. A.) The band extension on the real line as a limit of discrete band extensions. II. The entropy principle. (English summary) **94h:47027b**
— (*with* Kaashoek, M. A.) The band extension on the real line as a limit of discrete band extensions. I. The main limit theorem. (English summary) **94h:47027a**
González, Manuel (*with* Martinón, Antonio) Fredholm theory and space ideals. (Italian summary) **94f:47016**
Gorodniĭ, M. F. The existence of solutions of boundary value problems that correspond to a difference equation in a Banach space. (Russian. Russian and Ukrainian summaries) **94f:47095**
Herrero, Domingo Antonio A note on iterated similarities of operators. **94k:47029**
Hiai, Fumio (*with* Petz, Dénes) The Golden-Thompson trace inequality is complemented. (English summary) **94b:47026**
Holub, James R. Characterizations of Tauberian and related operators on Banach spaces. (English summary) **94i:47003**
Islamov, G. G. Extremal problems in the theory of perturbations of linear operators. (Russian. Russian summary) **94h:47018**
Jiang, Chun Lan *see* **Fong, Che Kao, 94b:47023**
Jibril, Adnan A. S. On almost unitarily equivalent operators. (English and Arabic summaries)
Jorgensen, Palle E. T. (*with* Pedersen, Steen) Group-theoretic and geometric properties of multivariable Fourier series. **94k:42050**
Kaashoek, M. A. *see* **Gohberg, Israel, 94h:47027a** *and* **94h:47027b**
Konovalenko, D. N. On divergence in category of sequences of linear operators. (English summary) **94m:28007**
Kornfel'd, I. P. *see* **Bergelson, Vitaly; et al., 94a:47008**
Kubrusly, C. S. Similarity to contractions and weak stability. (English summary) **94m:47039**
Lei, Tian Gang A necessary and sufficient condition for a higher-order derivative operator to be a Hermitian operator. (Chinese. Chinese summary) **94a:15047**
Lotto, B. A. von Neumann's inequality for commuting, diagonalizable contractions. I. **94e:47012**
— (*with* Steger, Tim) von Neumann's inequality for commuting, diagonalizable contractions. II. **94e:47013**
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Nagel, Rainer On the linear operator approach to dynamical systems. (English summary) **94b:47014**
— (*with* Räbiger, Frank) Superstable operators on Banach spaces. (English summary) **94i:47006**
Nakamura, Yoshihiro One-dimensional perturbations of the shift. (English summary) **94h:47019**
Niculescu, Constantin P. A note on $\ll_{M,p}$-ideals. (English summary) **94d:46021**
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Peetre, Jaak (*with* Zhang, Gen Kai) A weighted Plancherel formula. III. The case of the hyperbolic matrix ball. (English summary) **94m:43008**

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Pták, Vlastimil (*with* Vrbová, Pavla) Contractive couplings. **94a:47007**
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Ricker, Werner J. Commutativity of (2×2) selfadjoint matrices. (English summary) **94g:47005**
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Sebestyén, Zoltán (*with* Magyar, Á.) Restrictions of partial isometries. II. **94b:47011**
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Suciu, Ion The Kobayashi distance between two contractions. (English summary) **94j:47025**
Sun, Wan Gui (*with* Wang, Hai Yan[1]) Eigenvalue problems for unbounded linear operators. (Chinese. English and Chinese summaries) **94a:47029**
Utkin, V. I. Extensions and generalized resolvents of closed contractive operators in a Hilbert space. (Russian) **94b:47012**
Vasilescu, Florian-Horia *see* **Curto, Raúl E., 94k:47008**
Vernik, A. N. A multiplication theorem for characteristic functions, and spectral representations of completely nonunitary isometric operators. (Russian) **94a:47013**
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Wang, Hai Yan[1] *see* **Sun, Wan Gui, 94a:47029**
Yang, Chang Sen Multivariable operator polynomials. (Chinese. Chinese summary) **94k:47017**
Zajac, Michal Hyper-reflexivity of isometries and weak contractions. **94b:47007**
— *see also* **Duchoň, Miloslav, 94e:46086**
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Zhao, Zhen Fan Bounded linear 2-operators on linear 2-normed spaces. (Chinese. English and Chinese summaries)

47Cxx Individual linear operators as elements of algebraic systems

47C05 Operators in algebras

Gürkanlı, A. T. *see* **Mustafayev, H. S., 94c:47057**
Mustafayev, H. S. (*with* Gürkanlı, A. T.) On semisimplicity of some operator algebras. (English and Turkish summaries) **94c:47057**

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Barnes, Bruce A. Closed operators affiliated with a Banach algebra of operators. **94f:47015**

47C10 Operators in $*$-algebras

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Nica, Alexandru C^*-algebras generated by isometries and Wiener-Hopf operators. **94m:46094**

47C15 Operators in C^*- or von Neumann algebras

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Tanbay, Betül Approximating the averaging operator. (English and Turkish summaries) **94e:46109**
Vasilevskiĭ, N. L. On an algebra generated by abstract singular operators and a shift operator. **94g:47063**

47C99 None of the above, but in this section

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Peetre, Jaak The Bellaterra connection. (English summary) **94j:58018**

47Dxx Algebraic systems of linear operators [see also 46Lxx]

47D03 (Semi)groups of linear operators {For nonlinear operators, see 47H20; see also 20M20.}

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— (*with* Bukhvalov, A. V.) Integral representations of resolvents and semigroups. (English summary) **94k:47062**
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— (*with* Troallic, Jean-Pierre) Représentations de semigroupes par des opérateurs linéaires positifs sur $\mathscr{C}(X)$. [Representations of semigroups by positive linear operators on $\mathscr{C}(X)$] **94i:47063**
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— (*with* Xue, Xing Mei) An inverse problem for class $\mathscr{P}_1$ perturbations of C_0 semigroups. (Chinese. English and Chinese summaries) **94e:47053**
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47D06 One-parameter semigroups and linear evolution equations

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47G99 None of the above, but in this section

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47H04 Set-valued operators [see also 28B20, 54C60, 58C06]

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47H30 Particular nonlinear operators (superposition, Hammerstein, Nemytskiĭ, Uryson, hysteresis operators, etc.) [see also 45P05]

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Heinrich, Stefan Random approximation in numerical analysis. **94i:65015**
Khlobystov, V. V. *see* **Makarov, Vladimir Leonidovich, 94d:47012**
Kondrat'ev, Yu. G. (*with* Tsikalenko, T. V.) Infinite-dimensional Dirichlet operators. I. Essential selfadjointness and associated elliptic equations. (English summary) **94j:47038**
Krajcinovic, D. *see* **Lubarda, V. A.; et al., 94g:73021**
Lubarda, V. A. (*with* Šumarac, D.; Krajcinovic, D.) Preisach model and hysteretic behaviour of ductile materials. (English summary) **94g:73021**
Makarov, Vladimir Leonidovich (*with* Khlobystov, V. V.) Polynomial interpolation of operators in vector spaces. (Russian) **94d:47012**
Mathé, Peter On optimal random nets. (English summary) **94c:47028**
Mazón, J. M. *see* **Andreu, F., 94j:31010**
Miller, Kenneth S. (*with* Ross, Bertram) ★ An introduction to the fractional calculus and fractional differential equations. **94e:26013**
Nishishiraho, Toshihiko Convergence of quasi-positive linear operators. **94d:47031**
Nussbaum, Roger D. Entropy minimization, Hilbert's projective metric, and scaling integral kernels. (English summary) **94f:47014**
Osipenko, K. Yu. (*with* Stessin, Michael I.) Some problems of the optimal recovery of analytic and harmonic functions from inaccurate data. (Russian. English and Russian summaries) **94i:41045**
Ovcharenko, I. E. Positive definiteness; orthogonal systems; positivity. (Russian) **94j:42037**
Pescetti, D. A contribution to new Preisach-type models of hysteresis. (English summary) **94h:78017**
Plaskota, Leszek Optimal approximation of linear operators based on noisy data on functionals. (English summary) **94c:65071**
Ross, Bertram *see* **Miller, Kenneth S., 94e:26013**
Sakai, Makoto Regularity of boundaries of quadrature domains in two dimensions. (English summary) **94c:30054**
Scalas, E. (*with* Viano, G. A.) ε-entropy and ε-capacity in the theory of ill-posed problems. (English summary) **94g:65146**
Stessin, Michael I. *see* **Osipenko, K. Yu., 94i:41045**
Šumarac, D. *see* **Lubarda, V. A.; et al., 94g:73021**
Taylor, Keith F. (*with* Arimoto, Shigeru) The functional calculus and a generalization of the Coulson-Rushbrooke pairing theorem. (English summary) **94d:47013**
Tsikalenko, T. V. *see* **Kondrat'ev, Yu. G., 94j:47038**
Viano, G. A. *see* **Scalas, E., 94g:65146**
Voiculescu, D. V. Perturbations of operators, connections with singular integrals, hyperbolicity and entropy. **94d:47001**
Wu, Jun Convergence of sequences of projection operators in Banach spaces. (Chinese)

47Sxx Other (nonclassical) types of operator theory [see also 46Sxx]

47S10 Operator theory over fields other than R, C or the quaternions; non-Archimedean operator theory

Items with secondary classifications in 47S10
Álvarez García, José Antonio C^*-algebras of operators in non-Archimedean Hilbert spaces. (English summary) **94i:46103**
Katsaras, A. K. Non-Archimedean Λ_0-compactoid sets and Λ_0-nuclear operators. (Italian summary) **94i:46105**
— Non-Archimedean collectively Λ_0-nuclear operators. (English summary) **94c:46155**
Kochubei, A. N. The differentiation operator on subsets of the field of p-adic numbers. (Russian. Russian summary) **94f:11127**
— A Schrödinger-type equation over the field of p-adic numbers. (English summary) **94f:47059**
Vladimirov, V. S. Spectral properties of p-adic pseudodifferential operators of Schrödinger type. (Russian. Russian summary) **94a:47088**

47S20 Nonstandard operator theory [see also 03H05]

Items with secondary classifications in 47S20
Ben El Mamoune, Idriss (*with* Benoît, Éric; Lobry, Claude) Une version non standard du théorème de F. Riesz. (English and French summaries) [A nonstandard version of a theorem of F. Riesz] **94b:03105**
Benoît, Éric *see* **Ben El Mamoune, Idriss; et al., 94b:03105**
Lobry, Claude *see* **Ben El Mamoune, Idriss; et al., 94b:03105**

47S30 Constructive operator theory [see also 03F65]

Items with secondary classifications in 47S30
Heilman, Geoffrey Gleason's theorem is not constructively provable. **94b:03099**
— Constructive mathematics and quantum mechanics: unbounded operators and the spectral theorem. **94d:03117**

47S40 Fuzzy operator theory [see also 04A72]

Items with secondary classifications in 47S40
Noor, Muhammad Aslam Variational inequalities for fuzzy mappings. I. (English summary) **94g:90172**

47S50 Operator theory in probabilistic metric linear spaces

Bai, Yan Qin Extension theorems for random linear operators. (Chinese. English and Chinese summaries) **94d:47069**
Cho, Yeol Je *see* **Zhang, Shi Sheng; et al., 94m:47129**
Wang, Fan *see* **Zhang, Shi Sheng; et al., 94m:47129**
Zhang, Shi Sheng (*with* Cho, Yeol Je; Wang, Fan) On the existence and uniqueness problems of solutions for set-valued and single-valued nonlinear operator equations in probabilistic normed spaces. (English summary) **94m:47129**

Items with secondary classifications in 47S50
Beg, Ismat (*with* Shahzad, Naseer) Random fixed points and approximations in random convex metric spaces. (English summary) **94j:47087**
Chamola, K. P. *see* **Pant, B. D.**
Gong, Huai Yun (*with* Xiang, Shu Huang) Fixed-point theorems on probabilistic normed spaces and their applications. (Chinese. English and Chinese summaries) **94k:47084**
Huang, Nan Jing *see* **Zhang, Shi Sheng; et al., 94c:54058**
Pant, B. D. (*with* Chamola, K. P.) Common fixed point theorems in random normed spaces. (English summary)
Shahzad, Naseer *see* **Beg, Ismat, 94j:47087**
Shi, Chuan *see* **Zhang, Shi Sheng; et al., 94c:54058**
Xiang, Shu Huang *see* **Gong, Huai Yun, 94k:47084**
Xiao, Jian Zhong The probabilistic norm of linear operators on M-PN spaces and a characterization of their boundedness. (Chinese. Chinese summary)
Zhang, Shi Sheng Ekeland's variational principle and Caristi's coincidence theorem for set-valued mappings in probabilistic metric spaces. (Chinese. English and Chinese summaries) **94i:49033**
— (*with* Huang, Nan Jing; Shi, Chuan) A set-valued Caristi theorem in probabilistic metric spaces. (Chinese. English and Chinese summaries) **94c:54058**

47S99 None of the above, but in this section

Samborskii, S. N. (*with* Tarashchan, A. A.) The Fourier transform and semirings of Pareto sets. **94c:47107**
Tarashchan, A. A. *see* **Samborskii, S. N., 94c:47107**

Items with secondary classifications in 47S99
Borthwick, David (*with* Klimek, Sławomir; Lesniewski, Andrzej; Rinaldi, Maurizio) Super-Toeplitz operators and nonperturbative deformation quantization of supermanifolds. (English summary) **94d:47020**
Klimek, Sławomir *see* **Borthwick, David; et al., 94d:47020**
Lesin, S. A. (*with* Samborskii, S. N.) Spectra of compact endomorphisms. **94c:47047**
Lesniewski, Andrzej *see* **Borthwick, David; et al., 94d:47020**
Rinaldi, Maurizio *see* **Borthwick, David; et al., 94d:47020**
Samborskii, S. N. *see* **Lesin, S. A., 94c:47047**

49–XX Calculus of variations and optimal control; optimization [see also 34H05, 65Kxx, 90Cxx, 93–XX]

49–01 Instructional exposition (textbooks, tutorial papers, etc.)

Claus, Heinz Jörg ★ Extremwertaufgaben. (German. German summary) [Extremal problems] **94i:49001**
Danilina, N. I. *see* **Krotov, V. F.; et al., 94b:49001**
Krotov, V. F. (*with* Lagosha, B. A.; Lobanov, S. M.; Danilina, N. I.; Sergeev, S. I.) ★ Основы теории оптимального управления. (Russian. Russian summary) [Fundamentals of optimal control theory] **94b:49001**
Lagosha, B. A. *see* **Krotov, V. F.; et al., 94b:49001**
Lobanov, S. M. *see* **Krotov, V. F.; et al., 94b:49001**
Pinch, Enid R. ★ Optimal control and the calculus of variations. (English summary) **94g:49001**
Sagan, Hans ★ Introduction to the calculus of variations. (English summary) **94h:49001**
Sergeev, S. I. *see* **Krotov, V. F.; et al., 94b:49001**
Walden, Rainer Optimale Steuerungen. Eine Einführung. (German summary) [Optimal controls. An introduction]

Items with secondary classifications in 49–01
Bomze, Immanuel M. (*with* Grossmann, Wilfried) ★ Optimierung—Theorie und Algorithmen. (German. German summary) [Optimization—theory and algorithms] **94m:90002**
Grossmann, Wilfried *see* **Bomze, Immanuel M., 94m:90002**
Kistner, Klaus-Peter ★ Optimierungsmethoden. (German. German summary) [Optimization methods] **94d:90001**
Lagunov, V. N. ★ Игры преследования и введение в теорию игр. (Russian. Russian summary) [Pursuit games and an introduction to game theory]
Liu, Guang Zhong ★ Tu fenxi yu jizhi wenti. (Chinese. Chinese summary) [Convex analysis and extreme value problems] **94a:90001**
Lutmanov, S. V. ★ Конечномерные задачи оптимизации. (Russian. Russian summary) [Finite-dimensional optimization problems] **94b:90001**
Morlock, Martin *see* **Neumann, Klaus, 94a:90002**
Neumann, Klaus (*with* Morlock, Martin) ★ Operations research. (German) **94a:90002**

49–02 Research exposition (monographs, survey articles)

Aubin, Jean-Pierre ★ Optima and equilibria. **94b:49002**
Bensoussan, Alain (*with* Da Prato, Giuseppe; Delfour, Michel C.; Mitter, Sanjoy K.) ★ Representation and control of infinite-dimensional systems. Vol. 1. **94b:49003**
— (*with* Da Prato, Giuseppe; Delfour, Michel C.; Mitter, Sanjoy K.) ★ Representation and control of infinite-dimensional systems. Vol. II. (English summary) **94m:49001**
Dal Maso, Gianni ★ An introduction to Γ-convergence. (English summary) **94a:49001**
Da Prato, Giuseppe *see* **Bensoussan, Alain; et al., 94b:49003** *and* **94m:49001**
Delfour, Michel C. *see* **Bensoussan, Alain; et al., 94b:49003** *and* **94m:49001**
Dierkes, Ulrich (*with* Hildebrandt, Stefan; Küster, Albrecht; Wohlrab, Ortwin) ★ Minimal surfaces. I. **94c:49001a**
— (*with* Hildebrandt, Stefan; Küster, Albrecht; Wohlrab, Ortwin) ★ Minimal surfaces. II. **94c:49001b**
Giaquinta, Mariano ★ Introduction to regularity theory for nonlinear elliptic systems. (English summary) **94g:49002**
Hildebrandt, Stefan *see* **Dierkes, Ulrich; et al., 94c:49001a** *and* **94c:49001b**
Isac, George ★ Complementarity problems. **94h:49002**
— (*with* Postolică, Vasile) ★ The best approximation and optimization in locally convex spaces. (English summary) **94c:49002**
Kusraev, A. G. (*with* Kutateladze, S. S.) ★ Субдифференциалы. (Russian. Russian summary) [Subdifferentials] **94b:49004**
Küster, Albrecht *see* **Dierkes, Ulrich; et al., 94c:49001a** *and* **94c:49001b**
Kutateladze, S. S. *see* **Kusraev, A. G., 94b:49004**
Loewen, Philip D. ★ Optimal control via nonsmooth analysis. **94h:49003**
Lur'e, K. A. ★ Applied optimal control theory of distributed systems. (English summary) **94d:49001**
Miettinen, Markku ★ Approximation of hemivariational inequalities and optimal control problems. **94j:49001**
Mitter, Sanjoy K. *see* **Bensoussan, Alain; et al., 94b:49003** *and* **94m:49001**
Postolică, Vasile *see* **Isac, George, 94c:49002**
Rockafellar, R. Tyrrell Subgradients and variational analysis. (English summary) **94g:49003**
— Lagrange multipliers and optimality. (English summary) **94h:49004**
Shimizu, Kiyotaka Computational methods for optimal control of nonlinear systems. (Japanese)
Sokołowski, Jan (*with* Zolésio, Jean-Paul) ★ Introduction to shape optimization. (English summary) **94d:49002**
de Spinadel, Vera W. Optimal control and differential games. (Spanish)
Styczeń, Krystyn Optimal cyclic control of nonlinear dynamical systems. (Polish. English and Polish summaries) **94j:49002**
Subbotin, A. I. ★ Минимаксные неравенства и уравнения Гамильтона-Якоби. (Russian. English and Russian summaries) [Minimax inequalities and Hamilton-Jacobi equations] **94j:49003**
Talenti, Giorgio On isoperimetric theorems of mathematical physics. **94i:49002**
(Wilson, Stephen) *see* **Aubin, Jean-Pierre, 94b:49002**
Wohlrab, Ortwin *see* **Dierkes, Ulrich; et al., 94c:49001a** *and* **94c:49001b**
Żochowski, Antoni ★ Mathematical problems in shape optimization and shape memory materials. (English summary) **94d:49003**
Zolésio, Jean-Paul *see* **Sokołowski, Jan, 94d:49002**

Items with secondary classifications in 49–02

(Borisenko, I. T.) *see* **Some problems in the dynamics of controlled bodies, 94j:70023**
Giaquinta, Mariano (*with* Modica, Giuseppe; Souček, Jiří) The Dirichlet integral for mappings between manifolds: Cartesian currents and homology. **94c:49046**
Giorgi, Giorgio (*with* Komlósi, Sándor) Dini derivatives in optimization. I. (English and Italian summaries) **94j:49019**
— (*with* Komlósi, Sándor) Dini derivatives in optimization. II. (English and Italian summaries) **94j:49020**
Hoàng Tụy *see* **Horst, Reiner, 94m:90004**
Horst, Reiner (*with* Hoàng Tụy) ★ Global optimization. (English summary) **94m:90004**
Komlósi, Sándor *see* **Giorgi, Giorgio, 94j:49019** *and* **94j:49020**
Kuntz, Ludwig ★ Invertierbarkeit und implizite Auflösung quasidifferenzierbarer Funktionen. (German) [Invertibility and implicit solution of quasidifferentiable functions] **94d:49021**
Levitin, E. S. ★ Теория возмущений в математическом программировании и ее приложения. (Russian. English and Russian summaries) [Perturbation theory in mathematical programming and its applications] **94i:90004**
(Litvin-Sedoi, M. Z.) *see* **Some problems in the dynamics of controlled bodies, 94j:70023**
Magnitskiĭ, N. A. ★ Асимптотические методы анализа нестационарных управляемых систем. (Russian. English and Russian summaries) [Asymptotic methods for analyzing time-dependent control systems] **94j:93004**
Marchuk, G. I. ★ Сопряженные уравнения и анализ сложных систем. (Russian. Russian summary) [Conjugate equations and the analysis of complex systems] **94j:65005**
Modica, Giuseppe *see* **Giaquinta, Mariano; et al., 94c:49046**
Souček, Jiří *see* **Giaquinta, Mariano; et al., 94c:49046**
Talenti, Giorgio The standard isoperimetric theorem. (English summary) **94h:49065**
Zhang, Gong Qing ★ Infinite-dimensional Morse theory and multiple solution problems. **94e:58023**

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Some problems in the dynamics of controlled bodies ★ Некоторые задачи динамики управляемых тел. (Russian) [Some problems in the dynamics of controlled bodies] **94j:70023**

49–03 Historical (must also be assigned at least one classification number from Section 01)

Bulirsch, R. *see* **Pesch, Hans Josef, 94m:49002**
Pesch, Hans Josef (*with* Bulirsch, R.) The maximum principle, Bellman's equation, and Carathéodory's work. (English summary) **94m:49002**

Items with secondary classifications in 49–03

Aizerman, M. A. A brief overview of the state and development of the classical theory of regulation and control. (Russian. Russian summary) **94h:01027**
Bernoulli, Jacob (*with* Bernoulli, Johann I) ★ Die Streitschriften von Jacob und Johann Bernoulli. (Latin) [The polemical treatises of Jacob and Johann Bernoulli] **94h:01043**
Bernoulli, Johann I *see* **Bernoulli, Jacob, 94h:01043**
(Goldstine, Herman H.) *see* **Bernoulli, Jacob, 94h:01043**
(Radelet-de Grave, Patricia) *see* **Bernoulli, Jacob, 94h:01043**
(Speiser, David) *see* **Bernoulli, Jacob, 94h:01043**

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Bibliography:
  Bernoulli, Jacob I *see* **Bernoulli, Jacob, 94h:01043**
  Bernoulli, Johann I *see* **Bernoulli, Jacob, 94h:01043**
Collected Works:
  Bernoulli, Jacob I *see* **Bernoulli, Jacob, 94h:01043**
  Bernoulli, Johann I *see* **Bernoulli, Jacob, 94h:01043**

49–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 49–04

Frick, Pieter A. (*with* Stech, Daniel J.) A new approach for the solution of optimal control problems on parallel machines. (English and Polish summaries) **94d:49054**
Stech, Daniel J. *see* **Frick, Pieter A., 94d:49054**

49–06 Proceedings, conferences, collections, etc.

(Delfour, Michel C.) *see* **Shape optimization and free boundaries, 94h:49005**
(Krasnopolina, E. I.) *see* **Analysis, 94i:49004**
(Kurzhanskiĭ, A. B.) *see* **Set-valued analysis and differential inclusions, 94k:49001**
(Neittaanmäki, P.) *see* **Proceedings: Workshop on Optimization and Optimal Control, 94b:49006**
(Oettli, Werner) *see* **Advances in optimization, 94b:49005**
(Pallaschke, Diethard) *see* **Advances in optimization, 94b:49005**
(Sabidussi, Gert) *see* **Shape optimization and free boundaries, 94h:49005**
(Vakhrameev, S. A.) *see* **Analysis, 94i:49003**
(Vel'ov, V. M.) *see* **Set-valued analysis and differential inclusions, 94k:49001**

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Advances in optimization ★ Advances in optimization. **94b:49005**
Analysis ★ Analysis. 1. **94i:49003**
— ★ Analysis. 2. **94i:49004**
Colloquium:
  Optimization ★ Advances in optimization. **94b:49005**
Conference:
  Optimization ★ Advances in optimization. **94b:49005**
Jyväskylä ★ Proceedings of the Workshop on Optimization and Optimal Control. **94b:49006**
Lambrecht ★ Advances in optimization. **94b:49005**
Lecture Notes in Economics and Mathematical Systems ★ Advances in optimization. **94b:49005**
Montreal, PQ ★ Shape optimization and free boundaries. **94h:49005**
NATO Advanced Study Institute:
  Shape Optimization and Free Boundaries ★ Shape optimization and free boundaries. **94h:49005**
Pamporovo ★ Set-valued analysis and differential inclusions. **94k:49001**
Phase transitions and optimal control ★ Phase transition to saiteki seigyo. (Japanese) [Phase transitions and optimal control] **94d:49004**
Proceedings:
  Workshop on Optimization and Optimal Control ★ Proceedings of the Workshop on Optimization and Optimal Control. **94b:49006**
Seminar:
  Shape Optimization and Free Boundaries ★ Shape optimization and free boundaries. **94h:49005**
Set-valued analysis and differential inclusions ★ Set-valued analysis and differential inclusions. **94k:49001**
Shape optimization and free boundaries ★ Shape optimization and free boundaries. **94h:49005**
Symposium:
  Phase Transitions and Optimal Control ★ Phase transition to saiteki seigyo. (Japanese) [Phase transitions and optimal control] **94d:49004**
Workshop:
  Optimization and Optimal Control ★ Proceedings of the Workshop on Optimization and Optimal Control. **94b:49006**
  Set-valued Analysis and Differential Inclusions ★ Set-valued analysis and differential inclusions. **94k:49001**

Items with secondary classifications in 49–06

(Chentsov, A. G.) *see* **Relaxations of nonlinear extremal problems, 94c:00020**
(Dyatlov, V. P.) *see* **Relaxations of nonlinear extremal problems, 94c:00020**
(Elworthy, K. D.) *see* **Differential equations, dynamical systems, and control science, 94d:00021**
(Enos, Michael J.) *see* **Dynamics and control of mechanical systems, 94b:58001**
(Everitt, W. Norrie) *see* **Differential equations, dynamical systems, and control science, 94d:00021**
(Feichtinger, Gustav) *see* **Dynamic economic models and optimal control, 94c:90007**
(Giannessi, F.) *see* **Nonsmooth optimization: methods and applications, 94i:90011**

(Greene, Robert E.) *see* **Differential geometry: partial differential equations on manifolds, 94a:00010**
(Kurzhanskiĭ, A. B.) *see* **Advances in nonlinear dynamics and control: a report from Russia, 94m:93001**
(Lee, E. Bruce) *see* **Differential equations, dynamical systems, and control science, 94d:00021**
(Markus, Lawrence) *see* **Differential equations, dynamical systems, and control science, 94d:00021**
(Meredov, M. M.) *see* **Differential equations and optimal control, 94g:00018**
(Nagurney, Anna) *see* **Advances in equilibrium modeling, analysis and computation, 94e:90007**
(Slugin, S. N.) *see* **Methods of applied functional analysis, 94f:00018**
(Yau, Shing-Tung) *see* **Differential geometry: partial differential equations on manifolds, 94a:00010**

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Advances in equilibrium modeling, analysis and computation ★ Advances in equilibrium modeling, analysis and computation. **94e:90007**
Advances in nonlinear dynamics and control: a report from Russia ★ Advances in nonlinear dynamics and control: a report from Russia. **94m:93001**
All-Union Conference:
Differential Equations and Optimal Control ★ Дифференциальные уравнения и оптимальное управление. (Russian) [Differential equations and optimal control] **94g:00018**
Differential equations and optimal control ★ Дифференциальные уравнения и оптимальное управление. (Russian) [Differential equations and optimal control] **94g:00018**
Differential equations, dynamical systems, and control science ★ Differential equations, dynamical systems, and control science. **94d:00021**
Differential geometry: partial differential equations on manifolds ★ Differential geometry: partial differential equations on manifolds. **94a:00010**
Dynamic economic models and optimal control ★ Dynamic economic models and optimal control. **94c:90007**
Dynamics and control of mechanical systems ★ Dynamics and control of mechanical systems. **94b:58001**
Erice ★ Nonsmooth optimization: methods and applications. **94i:90011**
Festschrift:
Markus, Lawrence ★ Differential equations, dynamical systems, and control science. **94d:00021**
Los Angeles, CA ★ Differential geometry: partial differential equations on manifolds. **94a:00010**
Meeting:
Nonsmooth Optimization ★ Nonsmooth optimization: methods and applications. **94i:90011**
Methods of applied functional analysis ★ Методы прикладного функционального анализа. (Russian) [Methods of applied functional analysis] **94f:00018**
Nonsmooth optimization: methods and applications ★ Nonsmooth optimization: methods and applications. **94i:90011**
Relaxations of nonlinear extremal problems ★ Релаксации нелинейных экстремальных задач. (Russian) [Relaxations of nonlinear extremal problems] **94c:00020**
Research Institute:
Differential Geometry ★ Differential geometry: partial differential equations on manifolds. **94a:00010**
Vienna ★ Dynamic economic models and optimal control. **94c:90007**
Waterloo, ON ★ Dynamics and control of mechanical systems. **94b:58001**
Workshop:
Dynamic Economic Models and Optimal Control ★ Dynamic economic models and optimal control. **94c:90007**
The Falling Cat and Related Problems ★ Dynamics and control of mechanical systems. **94b:58001**

49Jxx Existence theory for optimal solutions

49J05 Free problems in one independent variable

Caligaris, O. (*with* Oliva, P.) Compactness of level sets for integral functionals in infinite-dimensional spaces. (Italian summary) **94f:49001**
Cellina, Arrigo (*with* Mariconda, Carlo) The existence question in the calculus of variations: a density result. **94f:49002**
Choquet, Gustave Applications récentes du théorème "contingent-paratingent" à l'analyse non-régulière. [Recent applications of the "contingent-paratingent" theorem to nonregular analysis] **94b:49007**
Egorov, Yurii Vladimirovich (*with* Kondrat'ev, V. A.) On a Lagrange problem. (English and French summaries) **94h:49006**
El-Sayed, M. A. An oscillation criterion for inhomogeneous Stieltjes integro-differential equations. (English summary)
(Janson, Svante) *see* **Peetre, Jaak**
Kondrat'ev, V. A. *see* **Egorov, Yurii Vladimirovich, 94h:49006**
Mariconda, Carlo A generalization of the Cellina-Colombo theorem for a class of nonconvex variational problems. (English summary) **94g:49004**
— *see also* **Cellina, Arrigo, 94f:49002**
Nowakowski, Andrzej (*with* Rogowski, A.) Periodic solutions in the calculus of variations and differential equations. **94i:49005**
Oliva, P. *see* **Caligaris, O., 94f:49001**
Peetre, Jaak Fast tunnels. II. (Swedish. English summary)
Rogowski, A. *see* **Nowakowski, Andrzej, 94i:49005**

Items with secondary classifications in 49J05

Nowakowski, Andrzej Sufficient conditions of Weierstrass type for the generalized problem of Bolza. (English summary) **94i:49037**

49J10 Free problems in two or more independent variables

Arutyunov, A. V. Sign-definiteness of quadratic forms of the calculus of variations with power degeneration. (Russian) **94c:49003a**
— Erratum: "Sign-definiteness of quadratic forms of the calculus of variations with power degeneration". (Russian) **94c:49003b**
Baldo, Sisto (*with* Modica, L.) Approximation of capillarity problem by Plateau problems. **94a:49002**
Choe, Hi Jun On the minimizers of certain singular convex functionals. **94f:49003**
Demengel, Françoise Some remarks on variational problems on $BV(\Omega, S^1)$ and $W^{1,1}(\Omega, S^1)$. **94g:49005**
Flores-Bazán, F. Existence theorems for a class of nonconvex problems in the calculus of variations. (English summary) **94g:49006**
Gangbo, Wilfrid On the continuity of the polyconvex, quasiconvex and rank-one-convex envelopes with respect to growth condition. (English summary) **94i:49006**
Guo, Xin Kang *see* **Shen, Yao Tian, 94k:49002**
Malý, Jan Weak lower semicontinuity of polyconvex integrals. (English summary) **94g:49007**
Marcus, Moshe Uniform estimates for a variational problem with small parameters. **94g:49008**
Modica, L. *see* **Baldo, Sisto, 94a:49002**
Monteiro Marques, Manuel D. P. Minimization of functionals on classes of Lipschitz domains and BV functions. **94d:49005**
Raymond, Jean-Pierre Nonconvex problems in calculus of variations. **94i:49007**
Shen, Yao Tian (*with* Guo, Xin Kang) The positive solution of degenerate variational problems and degenerate elliptic equations. (English summary) **94k:49002**
Yang, Xiao Ping A class of variational problems with integrals and obstacle constraints under natural growth conditions. (Chinese. Chinese summary) **94j:49004**

Items with secondary classifications in 49J10

Aviles, Patricio (*with* Giga, Yoshikazu) Minimal currents, geodesics, and relaxation of variational integrals on mappings of bounded variation. **94e:49016**
Bello, Juan A. (*with* Fernández Cara, Enrique; Simon, Jacques) The variation of the drag with respect to the domain in Navier-Stokes flow. (English summary) **94f:76010**
Bouchitté, Guy (*with* Buttazzo, Giuseppe) Relaxation for a class of nonconvex functionals defined on measures. (English and French summaries) **94e:49017**
Buttazzo, Giuseppe *see* **Bouchitté, Guy, 94e:49017**
Congedo, Giuseppe (*with* Tamanini, Italo) Optimal partitions with unbounded data. (Italian. English and Italian summaries) **94j:49048**
Corbo Esposito, Antonio (*with* De Arcangelis, Riccardo) Comparison results for some types of relaxation of variational integral functionals. (English summary) **94h:49022**
De Arcangelis, Riccardo *see* **Corbo Esposito, Antonio, 94h:49022**
Dubinskiĭ, Yu. A. On a periodic problem for nonlinear "elliptic" equations with complex arguments. (Russian) **94i:35014**
Fernández Cara, Enrique *see* **Bello, Juan A.; et al., 94f:76010**
Fonseca, Irene (*with* Parry, Gareth) Equilibrium configurations of defective crystals. **94j:73070**
— Lower semicontinuity of surface energies. **94j:73069**
Giaquinta, Mariano ★ Introduction to regularity theory for nonlinear elliptic systems. (English summary) **94g:49002**
Giga, Yoshikazu *see* **Aviles, Patricio, 94e:49016**
Guo, Xin Kang *see* **Shen, Yao Tian, 94j:35060**
Jensen, Robert Uniqueness of Lipschitz extensions: minimizing the sup norm of the gradient. (English summary) **94g:35063**
Leonetti, Francesco On the regularity of vector-valued minimizers of some nonconvex functionals with nonstandard growth. **94a:49037**
Miranda, Mario Surfaces with prescribed mean curvature. **94m:49056**
Moscariello, Gioconda A remark on the regularity of minima of certain nonquadratic functionals. (English and Italian summaries) **94a:49038**
Parry, Gareth *see* **Fonseca, Irene, 94j:73070**
Shen, Yao Tian (*with* Guo, Xin Kang) Positive solutions to degenerate variational problems and degenerate elliptic equations. (Chinese. Chinese summary) **94j:35060**
Simon, Jacques *see* **Bello, Juan A.; et al., 94f:76010**
Tamanini, Italo *see* **Congedo, Giuseppe, 94j:49048**
Xu, Chao Jiang On the regularity of the minima of quasiconvex integrals. (English summary) **94a:49040**

49J15 Optimal control problems involving ordinary differential equations

Artstein, Zvi Chattering limit for a model of harvesting in a rapidly changing environment. (English summary) **94g:49009**
Berbyuk, V. E. The use of first integrals for estimating limit possibilities of optimal control systems. (Russian. Russian summary) **94c:49004**
Buivolova, A. G. On the control of the "predator-prey" system. (Russian. Russian summary) **94i:49008**
Carlson, Dean A. Nonconvex and relaxed infinite-horizon optimal control problems. (English summary) **94f:49004**
Gabasov, R. (*with* Kirillova, F. M.; Kostyukova, O. I.) A method for the optimal control of motion of a dynamical system under constantly acting perturbations. (Russian. Russian summary) **94h:49007**
Ivanov, A. G. Continuous dependence of an almost periodic solution on a measure-valued control. (Russian. Russian summary) **94d:49006**
— Optimal control of almost periodic motions. (Russian. Russian summary) **94f:49005**
Kirillova, F. M. *see* **Gabasov, R.; et al., 94h:49007**
Kostyukova, O. I. *see* **Gabasov, R.; et al., 94h:49007**
Kovalevskiĭ, V. B. (*with* Panasyuk, V. I.) Conditions for the existence of strongly optimal trajectories for an optimal control problem. (Russian. English, Russian and Ukrainian summaries) **94g:49010**

Lędzewicz-Kowalewska, Urszula Extension of the local maximum principle to abnormal optimal control problems. (English summary) **94f:49006**
Panasyuk, V. I. *see* **Kovalevskiĭ, V. B., 94g:49010**
Sesekin, A. N. Impulse extension in the problem of optimizing the energy functional. (Russian. Russian summary) **94c:49005**
Solay Rakotonirainy, Georges *see* **Spinelli, Patricia, 94c:49006**
Spinelli, Patricia (*with* Solay Rakotonirainy, Georges) Existence d'un contrôle optimal via l'analyse non standard. (English summary) [Existence of an optimal control via nonstandard analysis] **94c:49006**
Suslov, S. I. Minimization of a nonconvex supremal functional. (Russian. Russian summary) **94d:49007**

Items with secondary classifications in 49J15

Balachandran, Krishnan *see* **Dauer, J. P., 94f:49040**
Bardi, Martino (*with* Staicu, Vasile) The Bellman equation for time-optimal control of noncontrollable, nonlinear systems. (English summary) **94h:49052**
Chentsov, A. G. Admissible sets and their relaxations. I. (Russian. Russian summary) **94d:49014a**
— Admissible sets and their relaxations. II. (Russian. Russian summary) **94d:49014b**
— *see also* **Serov, V. P., 94k:90164**
Chikrii, A. A. *see* **Pilipenko, Yu. V., 94m:90130**
Dauer, J. P. (*with* Balachandran, Krishnan) Existence of optimal control for nonlinear systems with an implicit derivative. (English summary) **94f:49040**
Favretti, Marco Some bounds for the solutions of certain families of Cauchy problems connected with bursting phenomena. **94f:34123**
Fuller, A. T. Constant-ratio trajectories in optimal control systems. (English summary) **94m:49027**
McRae, Farzana A. Optimal controllability of impulsive control systems. (English summary) **94d:93014**
Mukhamediev, B. M. Approximation of sets of guaranteed attainability of control systems with mixed constraints in the presence of noise. (Russian. Russian summary) **94b:93012**
Phelps, Robert R. ★ Convex functions, monotone operators and differentiability. **94f:46055**
Pilipenko, Yu. V. (*with* Chikrii, A. A.) Oscillatory conflict-controlled processes. (Russian. Russian summary) **94m:90130**
Serov, V. P. On the domain of attainability for linear systems with integral constraints. (Russian. Russian summary) **94e:93011**
— (*with* Chentsov, A. G.) On a programmed linear game-theoretic guidance problem with constraints on the control force impulse. (Russian. Russian summary) **94k:90164**
Staicu, Vasile *see* **Bardi, Martino, 94h:49052**
Strekalovskiĭ, A. S. Extremal problems on complements of convex sets. (Russian. English and Ukrainian summaries) **94j:90054**
Wang, Jian Ju A discontinuous slope differential system. (Chinese. English and Chinese summaries) **94h:34022**

49J20 Optimal control problems involving partial differential equations

Abergel, Frédéric (*with* Casas Rentería, Eduardo) Some optimal control problems of multistate equations appearing in fluid mechanics. (English and French summaries) **94g:49011**
Anița, Sebastian[2] Optimal control of parameter distributed systems with impulses. (English summary) **94g:49012**
Barbu, Viorel (*with* Pavel, N. H.) Optimal control problems with two-point boundary conditions. (English summary) **94d:49008**
Bodart, Olivier (*with* Fabre, Caroline) Contrôle insensibilisant la norme de la solution d'une équation de la chaleur semi-linéaire. (English and French summaries) [Existence of controls desensitizing the norm of the solutions of semilinear heat equations] **94b:49008**
Casas Rentería, Eduardo (*with* Fernández, Luis Alberto) Corrigendum: "Optimal control of semilinear elliptic equations with pointwise constraints on the gradient of the state" [Appl. Math. Optim. **27** (1993), no. 1, 35–56; MR 93h:49012]. **94f:49007**
— (*with* Fernández, Luis Alberto) Distributed control of systems governed by a general class of quasilinear elliptic equations. (English summary) **94k:49003**
— *see also* **Abergel, Frédéric, 94g:49011**
Chen, Goong *see* **Ji, Link, 94h:49008**
Da Prato, Giuseppe (*with* Ichikawa, Akira) Optimal control for integrodifferential equations of parabolic type. (English summary) **94g:49013**
Eppler, K. On the existence of optimal solutions for time-optimal semilinear parabolic boundary control problems. (English summary) **94f:49008**
Fabre, Caroline *see* **Bodart, Olivier, 94b:49008**
Fernández, Luis Alberto *see* **Casas Rentería, Eduardo, 94f:49007** *and* **94k:49003**
Gątarek, Dariusz (*with* Sobczyk, Jarosław) On the existence of optimal controls of Hilbert space-valued diffusions. (English summary) **94k:49004**
Ichikawa, Akira *see* **Da Prato, Giuseppe, 94g:49013**
Ji, Link (*with* Chen, Goong) Point observation in linear-quadratic elliptic distributed control systems. (English summary) **94h:49008**
Kalistratov, V. A. (*with* Okhezin, S. P.) An optimization model of the Stefan problem. (Russian. Russian summary) **94f:49009**
Kapustyan, V. E. Asymptotic bounded control in optimal elliptic problems. (Russian. English, Russian and Ukrainian summaries) **94i:49009**
Lenhart, S. M. (*with* Wilson, D. G.) Optimal control of a heat transfer problem with convective boundary condition. (English summary) **94j:49005**
Marino, Antonio (*with* Saccon, Claudio) Evolution equations with discontinuous nonlinearities and nonconvex constraints. **94f:49010**
Okhezin, S. P. *see* **Kalistratov, V. A., 94f:49009**
Pavel, N. H. *see* **Barbu, Viorel, 94d:49008**
Saccon, Claudio *see* **Marino, Antonio, 94f:49010**
Seidman, Thomas I. Existence of optimal controls for a free boundary problem. (English summary) **94i:49010**
Serovaĭskiĭ, S. Ya. Optimal control in a nonlinear stationary system with a nonmonotone operator. (Russian. Russian summary) **94a:49003**
— Optimal control of an infinite-dimensional system with multiple states. (Russian. English, Russian and Kazakh summaries)
Sobczyk, Jarosław *see* **Gątarek, Dariusz, 94k:49004**
Sumin, V. I. Singular controls in distributed optimization problems. (Russian) (*see* **94f:00019**)
Tomarelli, Franco Special bounded Hessian and partial regularity of equilibrium for a plastic plate. **94b:49009**
Wilson, D. G. *see* **Lenhart, S. M., 94j:49005**
Zhou, Mei Ke Optimal boundary control of two-dimensional stationary flow of incompressible non-Newtonian viscosity fluids. (Chinese. English and Chinese summaries) **94g:49014**

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Barbu, Viorel (*with* Pavel, N. H.) Optimal control of an elliptic governed problem. **94g:49047**
Bensoussan, Alain (*with* Bernhard, Pierre) On the standard problem of H_∞-optimal control for infinite-dimensional systems. **94m:93020**
Bergounioux, Maïtine (*with* Männikkö, Timo; Tiba, Dan) On nonqualified parabolic control problems. (*see* **94b:49006**)
Bernhard, Pierre *see* **Bensoussan, Alain, 94m:93020**
Filippov, V. M. (*with* Avakyan, A. È.) The existence of optimal domains in problems with B-symmetric, B-positive operators. (Russian. Russian summary) **94d:47009**
Goldberg, Helmuth (*with* Tröltzsch, Fredi) Second-order sufficient optimality conditions for a class of nonlinear parabolic boundary control problems. (English summary) **94h:49040**
Khludnev, A. M. An optimal control problem for a fourth-order variational inequality. **94b:49015**
Krushev, N. I. *see* **Venkov, G. I.**
Lovíšek, Ján Optimal design of laminated plate with obstacle. (English and Slovak summaries) **94a:49043**
Lubyshev, F. V. Approximation and regularization of problems of the optimal control of the coefficients of parabolic equations. (Russian. Russian summary) **94h:49056**
Lur'e, K. A. ★ Applied optimal control theory of distributed systems. (English summary) **94d:49001**
Männikkö, Timo *see* **Bergounioux, Maïtine; et al., (94b:49006)**
Nazarov, S. A. *see* **Zorin, I. S., 94m:35034**
Neittaanmäki, P. (*with* Rivkind, V. Ya.) Remarks on some optimization problems in fluid dynamics. (English summary) (*see* **94b:49006**)
Pavel, N. H. *see* **Barbu, Viorel, 94g:49047**
Rivkind, V. Ya. *see* **Neittaanmäki, P., (94b:49006)**
Serovaĭskiĭ, S. Ya. The regularization method in a problem of the optimal control of a nonlinear hyperbolic system. (Russian. Russian summary) **94d:49055**
Tiba, Dan *see* **Bergounioux, Maïtine; et al., (94b:49006)**
Tröltzsch, Fredi *see* **Goldberg, Helmuth, 94h:49040**
Venkov, G. I. (*with* Krushev, N. I.) Nondifferentiable design optimization problems with application to control engineering. (English summary)
Zhou, Xun Yu A class of semilinear stochastic partial differential equations and their controls: existence results. (English summary) **94a:60094**
Zorin, I. S. (*with* Nazarov, S. A.) Asymptotics of energy integrals for problems with a small parameter multiplying the highest derivatives. (Russian) **94m:35034**

49J22 Optimal control problems involving integral equations

Balder, Erik J. Existence of optimal solutions for control and variational problems with recursive objectives. (English summary) **94i:49011**
Kraut, H. An existence theorem for control problems with unbounded control domain. (English summary) **94g:49015**

Items with secondary classifications in 49J22

Yang, Xiao Ping A class of variational problems with integrals and obstacle constraints under natural growth conditions. (Chinese. Chinese summary) **94j:49004**

49J24 Optimal control problems involving differential inclusions

Ding, Zuo Hua *see* **Zhang, Shi Sheng; et al.**
Kang, Shi Kun *see* **Zhang, Shi Sheng; et al.**
Papageorgiou, Nikolaos S. Continuous dependence results for subdifferential inclusions. (English summary) **94g:49016**
Saint-Pierre, Patrick Approximation of the viability kernel. (English summary) **94m:49003**
Sieveking, M. Compactness of sets of solutions to infinite horizon optimal control problems. (English summary) **94i:49012**
Tuan, Hoang Duong On reachable set of singularly perturbed differential inclusions and optimal control problems. (English summary) **94i:49013**
Zhang, Shi Sheng (*with* Kang, Shi Kun; Ding, Zuo Hua) Ekeland's variational principle and differential inclusions. (Chinese. English and Chinese summaries)

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Ahmed, N. U. An existence theorem for differential inclusions on Banach space. (English summary) **94h:34016**
Ancona, Fabio *see* **Bressan, Alberto, 94g:47088**
Aubin, Jean-Pierre Mutational equations in metric spaces. (English summary) **94h:34020**
Auslender, Alfred (*with* Mechler, Julien) Second order viability problems for differential inclusions. (English summary) **94m:34034**
Benabdellah, Houcine (*with* Castaing, Charles; Gamal Ibrahim, M. A.) BV solutions of multivalued differential equations on closed moving sets in Banach spaces. (English summary) **94h:34071**
Bressan, Alberto (*with* Ancona, Fabio) Moduli of continuity of selections from nonconvex maps. (English summary) **94g:47088**

Bulgakov, A. I. Continuous branches of multivalued mappings, and integral inclusions with nonconvex images and their applications. I. (Russian. Russian summary) **94b:34022**
— Continuous branches of multivalued mappings, and integral inclusions with nonconvex images and their applications. II. (Russian. Russian summary) **94b:34023**
— Continuous branches of multivalued mappings, and integral inclusions with nonconvex images and their applications. III. (Russian. Russian summary) **94b:34024**
— Integral inclusions with nonconvex images and their applications to boundary value problems for differential inclusions. (Russian. Russian summary) **94b:34025**
Castaing, Charles *see* **Benabdellah, Houcine; et al., 94h:34071**
Cellina, Arrigo (*with* Colombo, Rinaldo M.) On the representation of measurable set valued maps through selections. **94a:28023**
Colombo, Giovanni (*with* Křivan, Vlastimil) Fuzzy differential inclusions and nonprobabilistic likelihood. (English summary) **94e:34021**
— (*with* Křivan, Vlastimil) A viability algorithm. **94a:34019**
Colombo, Rinaldo M. *see* **Cellina, Arrigo, 94a:28023**
Dawidowski, Marian (*with* Kubiaczyk, Ireneusz) Existence theorems for differential inclusions in Banach spaces. (English summary) **94i:34037**
De Blasi, Francesco S. (*with* Pianigiani, Giulio) Solution sets of boundary value problems for nonconvex differential inclusions. **94h:34017**
Deimling, Klaus ★ Multivalued differential equations. **94b:34026**
Dzedzej, Z. (*with* Gel′man, B. D.) Dimension of the solution set for differential inclusions. **94h:47139**
Gamal Ibrahim, M. A. *see* **Benabdellah, Houcine; et al., 94h:34071**
Gel′man, B. D. *see* **Dzedzej, Z., 94h:47139**
Górniewicz, Lech (*with* Plaskacz, Sławomir) Periodic solutions of differential inclusions in $\mathbb{R}^n$. (Italian summary) **94i:34085**
— (*with* Nistri, Paolo; Zecca, Pietro) Control problems on closed subsets of $\mathbb{R}^n$ via feedback controls. **94j:93013**
Guseinov, Kh. G. Strongly invariant sets with respect to a differential inclusion, and the approach problem for discontinuous control systems. (Russian. Russian summary) **94b:34027**
Hu, Shou Chuan (*with* Lakshmikantham, V.; Papageorgiou, Nikolaos S.) Extremal solutions of functional-differential inclusions. (English summary) **94c:34016**
— (*with* Papageorgiou, Nikolaos S.) On the topological regularity of the solution set of differential inclusions with constraints. (English summary) **94m:34036**
Kandilakis, Dimitrios (*with* Papageorgiou, Nikolaos S.) Evolution inclusions of the subdifferential type depending on a parameter. (English summary) **94b:34088**
— (*with* Papageorgiou, Nikolaos S.) Evolution inclusions of the subdifferential type depending on a parameter. (English summary) **94d:34069**
Kánnai, Z. Viability theorems on strongly sleek tubes. (English summary) **94m:34037**
Kirin, B. E. (*with* Kirin, N. E.) The method of Lyapunov functions in the problem of estimating the limit sets of solutions of differential controlled inclusions. (Russian) (*see* **94e:34002**)
Kirin, N. E. *see* **Kirin, B. E., (94e:34002)**
Kisielewicz, Michał Controllability theorems for neutral functional-differential inclusions. (English summary) **94b:93009**
— Relaxation theorem for attainable set for systems described by neutral functional-differential inclusions. (English summary) **94b:93010**
Křivan, Vlastimil *see* **Colombo, Giovanni, 94a:34019** *and* **94e:34021**
Kubiaczyk, Ireneusz *see* **Dawidowski, Marian, 94i:34037**
Lakshmikantham, V. Setvalued differential inequalities. **94d:34021**
— *see also* **Hu, Shou Chuan; et al., 94c:34016**
Mechler, Julien *see* **Auslender, Alfred, 94m:34034**
Nikol′skiĭ, M. S. Approximate calculation of the reachable set for a differential inclusion. (Russian. Russian summary) (*see* **94k:00018**)
— On absolutely continuous multivalued mappings. (Russian. Russian summary) **94d:28016**
Nistri, Paolo *see* **Górniewicz, Lech; et al., 94j:93013**
Nowakowski, Andrzej (*with* Rogowski, A.) Periodic solutions in the calculus of variations and differential equations. **94i:49005**
— Variational method for Hamiltonian equations in Banach spaces. (English, Russian and Polish summaries) **94m:49004**
Otakulov, S. On a pair of extremal problems for controlled differential inclusions. (Russian. English and Uzbek summaries) **94i:49044**
— Conditions for the controllability of differential inclusions. (Russian. Russian summary) **94i:93013**
Panasyuk, A. I. Properties of solutions of a quasidifferential approximation equation and an equation of an integral funnel. (Russian. Russian summary) **94d:34022**
Papageorgiou, Nikolaos S. On the "bang-bang" principle for nonlinear evolution inclusions. (English summary) **94d:49010**
— A property of the solution set of nonlinear evolution inclusions with state constraints. (English summary) **94c:34094**
— *see also* **Kandilakis, Dimitrios, 94b:34088; Hu, Shou Chuan; et al., 94c:34016; Kandilakis, Dimitrios, 94d:34069** *and* **Hu, Shou Chuan, 94m:34036**
Pianigiani, Giulio *see* **De Blasi, Francesco S., 94h:34017**
Plaskacz, Sławomir *see* **Górniewicz, Lech, 94i:34085**
Quincampoix, Marc Contribution à l'étude des perturbations singulières pour les systèmes contrôlés et les inclusions différentielles. (English and French summaries) [Contribution to the study of singular perturbations for control systems and differential inclusions] **94f:34125**
Rogowski, A. *see* **Nowakowski, Andrzej, 94i:49005**
Valadier, Michel Rafle et viabilité. [The sweeping process and viability] **94b:34028**
Ye, Si Yuan The viability problem for a class of differential-operator inclusions. (Chinese. English and Chinese summaries) **94h:34019**
Zaĭtsev, V. V. Construction of comparison systems in a problem of the estimation of an integral funnel of a dynamical system. (Russian. Russian summary) **94e:93012**
Zecca, Pietro *see* **Górniewicz, Lech; et al., 94j:93013**

49J25 Optimal control problems involving equations with retarded arguments [see also 34K35]

Frolov, A. V. *see* **Zecca, Pietro; et al., 94j:49006**
Nistri, Paolo *see* **Zecca, Pietro; et al., 94j:49006**
Zecca, Pietro (*with* Nistri, Paolo; Frolov, A. V.) Two optimization problems for nonlinear periodic control systems with aftereffect. (Russian. Russian summary) **94j:49006**

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Kamenskiĭ, G. A. Asymmetric nonlinear boundary value problems for functional-differential equations. (English and Arabic summaries) **94b:34092**

49J27 Problems in abstract spaces [see 90C48]

Ahmed, N. U. (*with* Kerbal, Sebti) Optimal control of nonlinear second order evolution equations. (English summary) **94i:49014**
Atteia, Marc Tensorial convex functionals and applications. (*see* **94b:49005**)
Bottaro Aruffo, Ada A comparison of functional upper bounds and a condition expressed via the Fenchel conjugate. (Italian. English and Italian summaries) **94f:49011**
Chakraborty, Gargi A class of generalised minimum effort problems in locally convex linear topological spaces. (English summary) **94h:49009**
Chbani, Zaki Approximée de Lasry-Lions et conjuguée quadratique. (French summary) [Lasry-Lions approximation and quadratic conjugate] **94e:49001**
Deville, Robert (*with* Godefroy, Gilles; Zizler, Václav) A smooth variational principle with applications to Hamilton-Jacobi equations in infinite dimensions. (English summary) **94b:49010**
Fattorini, H. O. Relaxed controls, differential inclusions, existence theorems, and the maximum principle in nonlinear infinite-dimensional control theory. **94i:49015**
Godefroy, Gilles *see* **Deville, Robert; et al., 94b:49010**
Gusev, M. I. On the structure of optimal minimax estimates in guaranteed estimation problems. (Russian) **94c:49007**
Kerbal, Sebti *see* **Ahmed, N. U., 94i:49014**
Kontorer, L. A. *see* **Yakovenko, S. Yu., 94j:49007**
Li, Wen Rong *see* **Si, Jian Guo**
Mel′nik, V. S. Extremal problems for superposition functionals. (Russian) **94g:49017**
Nowakowski, Andrzej Variational method for Hamiltonian equations in Banach spaces. (English, Russian and Polish summaries) **94m:49004**
— Solutions for a class of two-point boundary problems. (English, Russian and Polish summaries) **94m:49005**
Oettli, Werner (*with* Théra, Michel) Equivalents of Ekeland's principle. (English summary) **94k:49005**
Papageorgiou, Nikolaos S. Optimal control of nonlinear second order evolution equations. (English and Serbo-Croatian summaries) **94h:49010**
— Optimization of controlled evolution equations under indeterminacy conditions. (English summary) **94i:49016**
— Optimal control of nonlinear evolution equations with nonmonotone nonlinearities. (English summary) **94f:49012**
— Existence and variational problems for nonlinear evolution inclusions. (English summary) **94a:49004**
Park, Sehie On minimax inequalities on spaces having certain contractible subsets. (English summary) **94a:49005**
Si, Jian Guo (*with* Li, Wen Rong) Analytic solutions of some functional integral equations. (Chinese. English summary)
Song, Wen The equivalence between a nonconvex minimization theorem and Ekeland's variational principle. (Chinese. English and Chinese summaries)
Théra, Michel *see* **Oettli, Werner, 94k:49005**
Yakovenko, S. Yu. (*with* Kontorer, L. A.) Nonlinear semigroups and infinite horizon optimization. **94j:49007**
Yong, Jiong Min Existence theory of optimal controls for distributed parameter systems. (English summary) **94b:49011**
Zagatti, Sandro Metric and topological properties of nondecomposable sets. **94k:49006**
Zakrzewska, Danuta An existence theorem for Lagrange problems in Banach spaces. (English, Russian and Polish summaries) **94m:49006**
Zizler, Václav *see* **Deville, Robert; et al., 94b:49010**

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Ahmed, N. U. *see* **Dabbous, T. E., 94b:93136**
Aizicovici, Sergiu (*with* Papageorgiou, Nikolaos S.) Infinite-dimensional parametric optimal control problems. (English summary) **94g:49061**
Amar, Micol (*with* De Cicco, Virginia) The uniqueness as a generic property for some one-dimensional segmentation problems. (English summary) **94b:49033**
Andrica, Dorin The equation $f(x) = 0$ in Hilbert spaces via critical points theory. **94c:58025**
Benbourhim, Mohammed Najib (*with* Gaches, J.) T_f-splines et approximation par T_f-prolongement. (English summary) [T_f-splines and approximation by T_f-extension] **94i:41010**
Bensoussan, Alain (*with* Da Prato, Giuseppe; Delfour, Michel C.; Mitter, Sanjoy K.) ★ Representation and control of infinite-dimensional systems. Vol. 1. **94b:49003**
— (*with* Da Prato, Giuseppe; Delfour, Michel C.; Mitter, Sanjoy K.) ★ Representation and control of infinite-dimensional systems. Vol. II. (English summary) **94m:49001**
Cao, Shi Yi *see* **Huang, Nan Jing, 94m:49011**
Castaing, Charles (*with* Trúóng Xuân Dúc Hã; Valadier, Michel) Evolution equations governed by the sweeping process. (English summary) **94m:34035**
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Glizer, V. Y. (*with* Shinar, J.) On the structure of a class of time-optimal trajectories. (English summary)

Kolokol'nikova, G. A. Investigation of generalized solutions of optimal control problems with linear unbounded controls on the basis of multiple transformations. (Russian. Russian summary) **94h:49038**

Petrenko, I. V. Attainability sets of systems with nonnegative controls. (Russian. Russian summary) **94a:93005**

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Ding, Xie Ping New generalisations of an H-KKM type theorem and their applications. (English summary) **94j:49031**

Guerra, Francisco (*with* Alonso, Juan Miguel) Minimax optimization and Chebyshev approximation problems: optimality conditions and a numerical method. (Spanish. English and Spanish summaries) **94m:49038**

Kim, Won Kyu *see* **Bae, Jong Sook; et al., 94g:49059**

Kindler, Jürgen Intersection theorems and minimax theorems based on connectedness. **94g:49060**

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Liberatore, A. (*with* Myjak, J.) On a well-posed minimax problem. **94b:49048**

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Otakulov, S. On a minimax problem of the control of an ensemble of trajectories of a differential inclusion. (Russian. Russian summary) **94d:49039**

— A necessary condition for optimality in a minimax control problem. (Russian. English and Ukrainian summaries) **94d:49038**

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Jaimoukha, Imad M. (*with* Limebeer, D. J. N.) A state-space algorithm for the solution of the 2-block superoptimal distance problem. (English summary) **94i:93021**

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McMillan, Christine Alicia (*with* Triggiani, Roberto) Algebraic Riccati equations arising in the game theory and in H^∞-control problems for a class of abstract systems. (English summary) **94c:93033**

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Weber, Gerhard-Wilhelm Minimization of a max-type function: characterization of structural stability. (English summary) **94j:90040**

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Abdurakhimov, A. O. Optimal control of a continuous system with uncertainty in the quality criterion. (Russian. Russian summary)

Aizicovici, Sergiu (*with* Papageorgiou, Nikolaos S.) Infinite-dimensional parametric optimal control problems. (English summary) **94g:49061**

Alt, Walter Parametric optimization with an application to optimal control. (English summary) (*see* **94d:90007**)

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Barbet, Luc Analyse de sensibilité différentielle des solutions optimales d'inéquations variationnelles en dimension infinie. (English and French summaries) [Differentiable sensitivity analysis of the optimal solutions of variational inequalities in infinite dimensions] **94b:49049**

Beer, Gerald (*with* Lucchetti, Roberto) Well-posed optimization problems and a new topology for the closed subsets of a metric space. (English summary) **94k:49031**

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Ioffe, Alexandre D. On sensitivity analysis of nonlinear programs in Banach spaces: the approach via composite unconstrained optimization. (English summary) **94m:49039**

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Lucchetti, Roberto (*with* Wets, Roger J.-B.) Convergence of minima of integral functionals, with applications to optimal control and stochastic optimization. (English summary) **94m:49040**

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— Two-norm approach in stability and sensitivity analysis of optimization and optimal control problems. (English summary) **94g:49062**

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Banach spaces. **94i:41043**

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Tang, Shan Jian (*with* Li, Xun Jing) Maximum principle for optimal control of distributed parameter stochastic systems with random jumps. (English summary) **94g:49065**

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49L05 Free problems and problems involving ordinary differential equations

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— (*with* Pyatnitskiĭ, E. S.) Generalized Hamilton-Jacobi-Bellman equations in optimal control problems with phase constraints. II. (Russian. Russian summary) **94j:49035**

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49L25 Viscosity solutions

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49Mxx Methods of successive approximations {For discrete problems, see 90Cxx; see also 65Kxx.}

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49M05 Methods based on necessary conditions

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49M07 Gradient methods

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49M15 Methods of Newton-Raphson, Galerkin and Ritz types

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49M20 Methods of relaxation type

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49M25 Finite difference methods

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49M27 Decomposition methods

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49M29 Multiplier methods

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49M30 Other methods, not based on necessary conditions (penalty function, etc.)

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Serovaiskiĭ, S. Ya. The regularization method in a problem of the optimal control of a nonlinear hyperbolic system. (Russian. Russian summary) **94d:49055**
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Antonik, V. G. (*with* Srochko, V. A.) On the solution of optimal control problems based on linearization methods. (Russian. Russian summary) **94a:49023**
Baker, T. E. (*with* Polak, Elijah) On the optimal control of systems described by evolution equations. (English summary) **94m:49048**
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Chavent, Guy (*with* Kunisch, Karl) Regularization in state space. (English and French summaries) **94i:65073**
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Heinricher, Arthur C. (*with* Stockbridge, Richard H.) An infinite-dimensional LP solution to control of a continuous, monotone process. **94c:93113**
Johri, Pravin K. Duality via half spaces. (English summary) **94m:49052**
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49M37 Nonlinear programming [see also 90C30]

Hofmann, Bernd On minimizing the conditional entropy for some problems of optimal diagnosis. (English summary) **94f:49035**

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49M39 Semi-infinite programming [see also 90C34]

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49M40 Methods of quadratic programming type [see also 90C20]

Alt, Walter (*with* Malanowski, Kazimierz) The Lagrange-Newton method for nonlinear optimal control problems. (English summary) **94f:49036**
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49M99 None of the above, but in this section

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49Nxx Miscellaneous topics

49N05 Linear optimal control problems [see also 93C05]

Al'sevich, V. V. (*with* Gabasov, R.; Kirillova, F. M.) An optimal regulator for linear systems with delay with finite-dimensional terminal constraints. (Russian) **94h:49057**
Anderson, Edward J. (*with* Philpott, Andrew B.) Extreme points for linear optimal control problems with diagonal structure. (English summary) **94a:49030**
Balashevich, N. V. (*with* Gabasov, R.; Kirillova, F. M.) Synthesis of adaptive optimal controls for linear dynamical systems. (Russian) **94a:49031**
Barannik, V. G. Optimization of linear dynamical systems with uncertain parameters. (Russian. Russian summary) (*see* **94f:93002**)
Gabasov, R. *see* **Balashevich, N. V.; et al., 94a:49031** *and* **Al'sevich, V. V.; et al., 94h:49057**
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49N10 Linear-quadratic problems

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Drozdov, A. D. (*with* Gertsbakh, I.) Optimal control in linear partially observable systems with unknown parameters. (English summary)
Dymkov, M. P. The quadratic controller problem in linear 2-D systems. (Russian. English and Russian summaries) **94f:49037**
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Fabien, Brian C. The determination of feedback gains for uncertain linear systems using higher-order sensitivity minimization. (English summary)
(Fèng, I Kang) *see* **Ni, Mao Lin, 94c:49040**
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Mahmoud, Magdi S. (*with* Bahnasawi, Ahmed A.) A class of linear-quadratic discrete regulators. (English and Arabic summaries)
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Bershchanskii, Ya. M. Behavioral peculiarities of the optimal trajectories of bilinear systems. (Russian. Russian summary) **94k:49021**
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— (*with* Winkin, Joseph) LQ-optimal control of infinite-dimensional systems by spectral factorization. **94b:93072**
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— (*with* Fomin, V. N.) A linear-quadratic problem of stochastic control. III. Nonlinear optimal controllers. (Russian. Russian summary) **94h:93090**
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49N15 Duality theory

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Drenick, Rudolf F. Errata corrige: "Multilinear programming: duality theories" [J. Optim. Theory Appl. **72** (1992), no. 3, 459–486; MR 92k:49070]. (English summary)
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— (*with* Chandra, Suresh; Singh, Chanchal) A linearization approach to multiobjective programming duality. (English summary) **94c:90087**
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49N25 Impulsive optimal control problems [see also 93C57]

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49N45 Inverse problems in calculus of variations

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49N60 Regularity of solutions in the calculus of variations

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49N65 Applications of measurable selections to control theory [see also 28B20, 26E25]

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49N99 None of the above, but in this section

Fang, G. X. (*with* Warga, J.) A topological index condition for conical controllability. **94b:49068**
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49Q05 Minimal surfaces [see also 53A10, 58E12]

Almgren, Frederick J., Jr. Questions and answers about area-minimizing surfaces and geometric measure theory. **94h:49063**
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Córdoba, Antonio *see* **Caffarelli, Luis A., 94c:49042**
Duzaar, Frank On the existence of surfaces with prescribed mean curvature and boundary in higher dimensions. (English and French summaries) **94g:49094**
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— A Bernstein result for energy minimizing hypersurfaces. (English summary) **94k:35084**
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49Q10 Optimization of the shape other than minimal surfaces [see also 73K40, 90C90]

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Bonnetier, Éric (*with* Conca, Carlos) Relaxation totale d'un problème d'optimisation de plaques. (English and French summaries) [Full relaxation of a plate optimization problem] **94i:73068**
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Shape and layout optimization of structural systems and optimality criteria methods ★ Shape and layout optimization of structural systems and optimality criteria methods. **94i:73069**
Symposium:
Phase Transitions and Optimal Control ★ Phase transition to saiteki seigyo. (Japanese) [Phase transitions and optimal control] **94d:49004**

49Q12 Sensitivity analysis

Adelman, Howard M. *see* **Haftka, Raphael T., (94f:73055)**
Arora, Jasbir S. (*with* Lee, Tae Hee) Shape design sensitivity analysis of nonlinear nonconservative structural problems. (English summary) (*see* **94f:73055**)
Delfour, Michel C. (*with* Zolésio, Jean-Paul) Shape derivatives for nonsmooth domains. (English summary) **94d:49068**
Dems, Krzysztof Direct and adjoint approach to first- and second-order shape sensitivity and optimal design of structure. (English summary) (*see* **94f:73055**)
Fleury, C. Dual methods for convex separable problems. (English summary) (*see* **94f:73055**)
Haftka, Raphael T. (*with* Adelman, Howard M.) Sensitivity of discrete systems. (English summary) (*see* **94f:73055**)
Lee, Tae Hee *see* **Arora, Jasbir S., (94f:73055)**
Rousselet, Bernard Introduction to shape sensitivity: three-dimensional and surface systems. (English summary) (*see* **94f:73055**)
Zolésio, Jean-Paul *see* **Delfour, Michel C., 94d:49068**

Items with secondary classifications in 49Q12

Brokate, Martin (*with* Siddiqi, Abul Hasan) Sensitivity in the rigid punch problem. (English summary) **94h:73071**
Choi, Kyung K. (*with* Wang, Semyung) Design sensitivity analysis of dynamics of built-up structures using Ritz and mode acceleration methods. (English summary) (*see* **94f:73055**)
— (*with* Shim, Inbo; Lee, Jaehwan; Kulkarni, Harihar T.) Design sensitivity analysis of dynamic frequency responses of acousto-elastic built-up structures. (English summary) (*see* **94f:73055**)
Dems, Krzysztof Shape sensitivity analysis and optimal design of plates with varying external and internal boundaries. (English summary) (*see* **94f:73055**)
Kravvaritis, Dimitrios (*with* Papageorgiou, Nikolaos S.) Sensitivity analysis of a discrete-time multisector growth model with uncertainty. (English summary) **94b:90016**
Kulkarni, Harihar T. *see* **Choi, Kyung K.; et al., (94f:73055)**
Lee, Jaehwan *see* **Choi, Kyung K.; et al., (94f:73055)**
Mróz, Zenon Design sensitivity of critical loads and vibration frequencies of nonlinear structures. (English summary) (*see* **94f:73055**)
Neittaanmäki, P. Design sensitivity analysis for state-constrained structural design problems. (English summary) **94c:73050**
Olhoff, Niels (*with* Rasmussen, John) Method of error elimination for a class of semi-analytical sensitivity analysis problems. (English summary) (*see* **94f:73055**)
Papageorgiou, Nikolaos S. *see* **Kravvaritis, Dimitrios, 94b:90016**
Rao, Murali (*with* Sokołowski, Jan) Sensitivity analysis of unilateral problems in $H_0^2(\Omega)$ and applications. (English summary) **94d:49044**
Rasmussen, John *see* **Olhoff, Niels, (94f:73055)**
Rousselet, Bernard A finite strain rod model and its design sensitivity. (English summary) (*see* **94f:73055**)
(Rozvany, G. I. N.) *see* **Optimization of large structural systems, 94f:73055**
Shim, Inbo *see* **Choi, Kyung K.; et al., (94f:73055)**
Siddiqi, Abul Hasan *see* **Brokate, Martin, 94h:73071**
Sokołowski, Jan *see* **Rao, Murali, 94d:49044**
Wang, Semyung *see* **Choi, Kyung K., (94f:73055)**

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Berchtesgaden ★ Optimization of large structural systems. Vol. I, II. **94f:73055**
NATO Advanced Study Institute:
Optimization of Large Structural Systems ★ Optimization of large structural systems. Vol. I, II. **94f:73055**
Optimization of large structural systems ★ Optimization of large structural systems. Vol. I, II. **94f:73055**

49Q15 Geometric measure and integration theory, integral and normal currents [see also 28A75, 32C30, 58A25, 58C35]

Almgren, Frederick J., Jr. (*with* Browder, William) Homotopy with holes and minimal surfaces. **94a:49041**

— The geometric calculus of variations and modelling natural phenomena. (English summary) **94d:49069**
Banichuk, N. V. (*with* Bratus', A. S.) Optimal design of structures equipped with actuators. (Russian. Russian summary)
Bardaro, Carlo Basic properties of functions of bounded variation. (Italian) **94m:49059**
Bratus', A. S. *see* **Banichuk, N. V.**
Browder, William *see* **Almgren, Frederick J., Jr., 94a:49041**
Buttazzo, Giuseppe Existence via relaxation for some domain optimization problems. (English summary) (*see* **94e:73046**)
van Campen, D. H. (*with* Schoofs, A. J. G.; Roozen-Kroon, P. J. M.) Structural optimization and experimental design. (Russian. Russian summary)
Chenais, Denise Why does it seem difficult to avoid homogenization type methods in order to change topology in shape optimization? (English summary) (*see* **94e:73046**)
Cheng, Xiaoxi A mass reducing flow for integral currents. (English summary) **94g:49098**
Cox, Steven J. (*with* Ross, M.) Extremal eigenvalue problems for starlike drums. (English summary) (*see* **94e:73046**)
Giaquinta, Mariano (*with* Modica, Giuseppe; Souček, Jiří) Variational problems for the conformally invariant integral $\int |du|^n$. **94c:49045**
— (*with* Modica, Giuseppe; Souček, Jiří) The Dirichlet integral for mappings between manifolds: Cartesian currents and homology. **94c:49046**
Haslinger, Jaroslav Imbedding/control approach for solving optimal shape design problems. (English summary) (*see* **94e:73046**)
Kiêu, K. A coarea formula for multiple geometric integrals. (English summary) **94g:49099**
Kinderlehrer, David (*with* Pedregal, Pablo) Remarks about the analysis of gradient Young measures. **94a:49042**
Konyagin, S. V. On the level sets of Lipschitz functions. (English summary) **94m:49060**
Modica, Giuseppe *see* **Giaquinta, Mariano; et al., 94c:49045** *and* **94c:49046**
Parks, Harold R. (*with* Schori, Richard M.) A Jordan arc in $\mathbf{R}^n$ with positive m-dimensional Lebesgue measure. (English summary) **94b:49071**
Pedregal, Pablo *see* **Kinderlehrer, David, 94a:49042**
Ricceri, Biagio A variational property of integral functionals on L^p-spaces of vector-valued functions. (English and French summaries) **94m:49061**
Roozen-Kroon, P. J. M. *see* **van Campen, D. H.; et al.**
Ross, M. *see* **Cox, Steven J., (94e:73046)**
Schoofs, A. J. G. *see* **van Campen, D. H.; et al.**
Schori, Richard M. *see* **Parks, Harold R., 94b:49071**
Smirnov, S. K. Decomposition of solenoidal vector charges into elementary solenoids, and the structure of normal one-dimensional flows. (Russian. Russian summary) **94l:49054**
Sokołowski, Jan Shape sensitivity analysis of variational inequalities. (English summary) **94k:49041**
— Applications of material derivative method. (English summary) (*see* **94e:73046**)
Souček, Jiří *see* **Giaquinta, Mariano; et al., 94c:49045** *and* **94c:49046**
Takamura, Hiroyuki Weighted deformation theorem for normal currents. (English summary) **94f:49045**

Items with secondary classifications in 49Q15

Allaire, Grégoire (*with* Kohn, Robert V.) Topology optimization and optimal shape design using homogenization. (English summary) (*see* **94e:73046**)
Almgren, Frederick J., Jr. What can geometric measure theory do for several complex variables? **94f:32022**
Álvarez León, Luis (*with* Guichard, Frédéric; Lions, Pierre-Louis; Morel, Jean-Michel) Axioms and fundamental equations of image processing. (English summary) **94j:68306**
Bauman, Patricia Qualitative behavior of solutions to a system of partial differential equations from nonlinear elasticity. **94b:35062**
Brézis, Haïm (*with* Fusco, Nicola; Sbordone, Carlo) Integrability for the Jacobian of orientation preserving mappings. (English summary) **94j:26024**
Cheng, Geng Dong (*with* Olhoff, Niels) New method of error analysis and detection in semi-analytical sensitivity analysis. (English summary) (*see* **94f:73055**)
Chentsov, A. G. Admissible sets and their relaxations. I. (Russian. Russian summary) **94d:49014a**
— Admissible sets and their relaxations. II. (Russian. Russian summary) **94d:49014b**
Chopp, David L. Computing minimal surfaces via level set curvature flow. **94f:53007**
Ciarletta, Michele (*with* Scalia, Antonio) Variational theorem and minimum principle for nonsimple micropolar porous solids. (English summary) **94k:73002**
Correia, V. F. *see* **Mota Soares, C. M.; et al., (94e:73046)**
(Davis, H. Ted) *see* **Statistical thermodynamics and differential geometry of microstructured materials, 94b:53003**
De Giorgi, Ennio On the relaxation of functionals defined on Cartesian manifolds. **94c:49044**
Delfour, Michel C. (*with* Zolésio, Jean-Paul) Adjoint state in the control of variational inequalities. (English summary) **94j:49008**
Fattorini, H. O. Relaxed controls, differential inclusions, existence theorems, and the maximum principle in nonlinear infinite-dimensional control theory. **94i:49015**
Fu, Joseph H. G. Convergence of curvatures in secant approximations. **94a:53103**
Fusco, Nicola *see* **Brézis, Haïm; et al., 94j:26024**
Guichard, Frédéric *see* **Álvarez León, Luis; et al., 94j:68306**
Harrison, Jenny C. Stokes' theorem for nonsmooth chains. (English summary) **94d:58020**
Hsu, Lucas Calculus of variations via the Griffiths formalism. (English summary) **94a:58003**
Jost, Jürgen Unstable solutions of two-dimensional geometric variational problems. **94d:58033**
Kikuchi, Noboru *see* **Suzuki, Katsuyuki, (94f:73055)**
Kohn, Robert V. Numerical structural optimization via a relaxed formulation. (English summary) **94j:73047**
— *see also* **Allaire, Grégoire, (94e:73046)**
Lions, Pierre-Louis *see* **Álvarez León, Luis; et al., 94j:68306**
Lipton, Robert Optimal reliability design of plates. (English summary) (*see* **94e:73046**)
Luckhaus, Stephan Convergence of minimizers for the p-Dirichlet integral. **94d:58041**
Mateus, H. C. *see* **Mota Soares, C. M.; et al., (94e:73046)**
Morel, Jean-Michel *see* **Álvarez León, Luis; et al., 94j:68306**
Mota Soares, C. M. (*with* Mota Soares, Carlos A.; Correia, V. F.; Mateus, H. C.) Optimal design of thin laminated composite structures. (English summary) (*see* **94e:73046**)
Mota Soares, Carlos A. *see* **Mota Soares, C. M.; et al., (94e:73046)**
Nagasawa, Takeyuki (*with* Omata, Seiro) Discrete Morse semiflows of a functional with free boundary. (English summary) **94g:35229**
Neittaanmäki, P. (*with* Repin, S.; Rivkind, V. Ya.) Conforming finite element methods using discontinuous approximations. (English summary) **94g:65059**
(Nitsche, Johannes C. C.) *see* **Statistical thermodynamics and differential geometry of microstructured materials, 94b:53003**
Olhoff, Niels *see* **Cheng, Geng Dong, (94f:73055)**
Olver, Peter J. Equivalence and the Cartan form. (English summary) **94i:58053**
Omata, Seiro *see* **Nagasawa, Takeyuki, 94g:35229**
Pfeffer, Washek F. Lectures on geometric integration and the divergence theorem. (English summary) **94k:26018**
Puolokainen, T. M. A problem with a compact obstacle for a noncompact surface with given density of integral mean curvature. (Russian) **94e:53006**
Repin, S. *see* **Neittaanmäki, P.; et al., 94g:65059**
Rivkind, V. Ya. *see* **Neittaanmäki, P.; et al., 94g:65059**
Rozvany, G. I. N. (*with* Zhou, M.) Layout and generalized shape optimization by iterative COC methods. (English summary) (*see* **94f:73055**)
Sbordone, Carlo *see* **Brézis, Haïm; et al., 94j:26024**
Scalia, Antonio *see* **Ciarletta, Michele, 94k:73002**
Schechter, Martin Critical points over splitting subspaces. (English summary) **94e:58022**
Sokołowski, Jan (*with* Zolésio, Jean-Paul) ★ Introduction to shape optimization. (English summary) **94d:49002**
Suzuki, Katsuyuki (*with* Kikuchi, Noboru) Layout optimization using the homogenization method. (English summary) (*see* **94f:73055**)
Šverák, Vladimír On Tartar's conjecture. (English and French summaries) **94j:35033**
Tiba, Dan Propriétés de controlabilité pour les systèmes elliptiques, la méthode des domaines fictifs et problèmes de design optimal. (English and French summaries) [Controllability properties for elliptic systems, the fictitious domain method and optimal shape design problems] **94f:93016**
Tortorelli, Daniel A. (*with* Wang, Zixian) A systematic approach to shape sensitivity analysis. (English summary) **94a:73033**
Wang, Zixian *see* **Tortorelli, Daniel A., 94a:73033**
Zhou, M. *see* **Rozvany, G. I. N., (94f:73055)**
Zolésio, Jean-Paul *see* **Sokołowski, Jan, 94d:49002** *and* **Delfour, Michel C., 94j:49008**

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Minneapolis, MN ★ Statistical thermodynamics and differential geometry of microstructured materials. **94b:53003**
Statistical thermodynamics and differential geometry of microstructured materials
★ Statistical thermodynamics and differential geometry of microstructured materials. **94b:53003**
Workshop:
Statistical Thermodynamics and Differential Geometry of Microstructured Materials
★ Statistical thermodynamics and differential geometry of microstructured materials. **94b:53003**

49Q20 Variational problems in a geometric measure-theoretic setting

Alberti, Giovanni Rank one property for derivatives of functions with bounded variation. (English summary) **94g:49100**
Aviles, Patricio (*with* Giga, Yoshikazu) Minimal currents, geodesics, and relaxation of variational integrals on mappings of bounded variation. **94e:49016**
Barron, E. N. (*with* Jensen, Robert; Menaldi, José-Luis) Optimal control and differential games with measures. **94k:49042**
Bellettini, Giovanni (*with* Dal Maso, Gianni; Paolini, Maurizio) Semicontinuity and relaxation properties of a curvature depending functional in 2D. **94g:49101**
Bouchitté, Guy (*with* Buttazzo, Giuseppe) Relaxation for a class of nonconvex functionals defined on measures. (English and French summaries) **94e:49017**
Buttazzo, Giuseppe *see* **Bouchitté, Guy, 94e:49017**
Carriero, Michele (*with* Leaci, Antonio; Tomarelli, Franco) Special bounded Hessian and elastic-plastic plate. (English and Italian summaries) **94k:49043**
Chen, Bang-Yen (*with* Dillen, Franki; Verstraelen, Leopold; Vrancken, Luc) A variational minimal principle characterizes submanifolds of finite type. (English and French summaries) **94g:49102**
Congedo, Giuseppe (*with* Tamanini, Italo) Optimal partitions with unbounded data. (Italian. English and Italian summaries) **94j:49048**
Dacorogna, Bernard (*with* Pfister, C.-E.) Wulff theorem and best constant in Sobolev inequality. **94d:49070**
Dal Maso, Gianni (*with* Defranceschi, Anneliese; Vitali, Enrico) Integral representation for a class of C^1-convex functionals. (English summary) **94k:49044**
— *see also* **Bellettini, Giovanni; et al., 94g:49101**
Defranceschi, Anneliese *see* **Dal Maso, Gianni; et al., 94k:49044**
De Giorgi, Ennio Motion by variation. (Italian) **94k:49045**
Dillen, Franki *see* **Chen, Bang-Yen; et al., 94g:49102**
Giaquinta, Mariano (*with* Modica, Giuseppe; Souček, Jiří) Singular perturbations associated to the Dirichlet energy of maps with values in S^2. (English summary) **94k:49046**
Giga, Yoshikazu *see* **Aviles, Patricio, 94e:49016**
Gonzalez, Eduardo H. A. (*with* Massari, Umberto; Tamanini, Italo) Boundaries of prescribed mean curvature. (English and Italian summaries) **94j:49049**
Jensen, Robert *see* **Barron, E. N.; et al., 94k:49042**
Leaci, Antonio *see* **Carriero, Michele; et al., 94k:49043**
Lovíšek, Ján Optimal design of laminated plate with obstacle. (English and Slovak summaries) **94a:49043**
Massari, Umberto *see* **Gonzalez, Eduardo H. A.; et al., 94j:49049**

Matos, João P. Young measures: regularity results in the two well problem. (English summary) (*see* **94e:00020**)
Menaldi, José-Luis *see* **Barron, E. N.; et al., 94k:49042**
Modica, Giuseppe *see* **Giaquinta, Mariano; et al., 94k:49046**
Morgan, Frank (M, ε, δ)-minimal curve regularity. **94e:49018**
Paolini, Maurizio *see* **Bellettini, Giovanni; et al., 94g:49101**
Pfister, C.-E. *see* **Dacorogna, Bernard, 94d:49070**
Souček, Jiří *see* **Giaquinta, Mariano; et al., 94k:49046**
Tamanini, Italo *see* **Congedo, Giuseppe, 94j:49048** *and* **Gonzalez, Eduardo H. A.; et al., 94j:49049**
Tomarelli, Franco *see* **Carriero, Michele; et al., 94k:49043**
Verstraelen, Leopold *see* **Chen, Bang-Yen; et al., 94g:49102**
Vitali, Enrico *see* **Dal Maso, Gianni; et al., 94k:49044**
Vrancken, Luc *see* **Chen, Bang-Yen; et al., 94g:49102**

Items with secondary classifications in 49Q20

Almgren, Frederick J., Jr. Questions and answers about area-minimizing surfaces and geometric measure theory. **94h:49063**
Ambrosio, Luigi (*with* Pallara, Diego) Integral representations of relaxed functionals on $BV(\mathbf{R}^n, \mathbf{R}^k)$ and polyhedral approximation. (English summary) **94g:49029**
Baldo, Sisto (*with* Modica, L.) Approximation of capillarity problem by Plateau problems. **94a:49002**
Banichuk, N. V. (*with* Larichev, A. D.) Decomposition of some dynamic problems of optimal design. (Russian) **94k:73055**
Barrett, John W. (*with* Parker, Phillip E.) Smooth limits of piecewise-linear approximations. (English summary) **94m:83019**
Bernoussi, Benaissa Oscillations et compacité en mesure. [Oscillations and compactness in measure] **94k:28014**
Bonnet, Alexis Un lemme de déformation sur une sous-variété de classe C^1. (English and French summaries) [A deformation lemma on a C^1-manifold] **94g:58037**
Brakke, Kenneth A. The opaque cube problem. **94b:51025**
Buttazzo, Giuseppe (*with* Freddi, Lorenzo) Sequences of optimal control problems with measures as controls. (English summary) **94h:49020**
Chenais, Denise Discrete gradient and discretized continuum gradient methods for shape optimization of shells. (English summary) **94k:73056**
Chentsov, A. G. On an extension of an extremal problem with nonhomogeneous constraints. (Russian. Russian summary) **94j:49013**
— On a construction of an extension of a nonlinear infinite-dimensional extremal problem in the class of vector finitely additive measures. (Russian. Russian summary) **94j:49014**
Daletskii, Yu. L. (*with* Steblovskaya, V. R.) Smooth measures: absolute continuity, stochastic integrals, variational problems. **94d:28018**
Dickey, L. A. On exactness of the variational bicomplex. **94b:58035**
Fichera, Gaetano Conditions for holomorphy of L^1_{loc} functions. **94g:32002**
Fonseca, Irene (*with* Müller, Stefan) Relaxation of quasiconvex functionals in $BV(\Omega, \mathbf{R}^p)$ for integrands $f(x, u, \nabla u)$. (English summary) **94h:49023**
Freddi, Lorenzo *see* **Buttazzo, Giuseppe, 94h:49020**
Fuchs, Martin[2] p-harmonic obstacle problems. IV. Unbounded side conditions. (English summary) **94i:49051**
Geymonat, Giuseppe (*with* Müller, Stefan; Triantafyllidis, Nicolas) Homogenization of non-linearly elastic materials, microscopic bifurcation and macroscopic loss of rank-one convexity. **94i:73009**
Giaquinta, Mariano (*with* Modica, Giuseppe; Souček, Jiří) The Dirichlet integral for mappings between manifolds: Cartesian currents and homology. **94c:49046**
Gustafsson, Björn (*with* Mossino, Jacqueline; Picard, Colette) Homogenization of foliated annuli. (English summary) **94d:49015**
Hardt, Robert M. Some new harmonic maps. **94b:58032**
Höjô, Shun-ichi On the equivalence of variational problems and the homogeneity of Lagrangian functions. **94j:58052**
Ivanov, A. G. Continuous dependence of an almost periodic solution on a measure-valued control. (Russian. Russian summary) **94d:49006**
Jurdjevic, Velimir The geometry of the plate-ball problem. **94i:70030**
Larché, Francis *see* **Morgan, Frank; et al., 94m:73072**
Larichev, A. D. *see* **Banichuk, N. V., 94k:73055**
Le Bris, C. Some results on the Thomas-Fermi-Dirac-von Weizsäcker model. (English summary) **94a:81147**
Luskin, M. Numerical analysis of microstructure for crystals with nonconvex energy density. (English summary) **94i:73022**
Mitter, Sanjoy K. (*with* Zeitouni, Ofer) An SPDE formulation for image segmentation. **94g:60094**
Modica, Giuseppe *see* **Giaquinta, Mariano; et al., 94c:49046**
Modica, L. *see* **Baldo, Sisto, 94a:49002**
Morgan, Frank (*with* Sullivan, John M.; Larché, Francis) Monotonicity theorems for two-phase solids. (English summary) **94m:73072**
Mossino, Jacqueline *see* **Gustafsson, Björn; et al., 94d:49015**
Müller, Stefan *see* **Fonseca, Irene, 94h:49023** *and* **Geymonat, Giuseppe; et al., 94i:73009**
Pallara, Diego *see* **Ambrosio, Luigi, 94g:49029**
Parker, Phillip E. *see* **Barrett, John W., 94m:83019**
Pedregal, Pablo Jensen's inequality in the calculus of variations. (English summary) **94i:49032**
Picard, Colette *see* **Gustafsson, Björn; et al., 94d:49015**
Smirnov, S. K. Decomposition of solenoidal vector charges into elementary solenoids, and the structure of normal one-dimensional flows. (Russian. Russian summary) **94i:49054**
Souček, Jiří *see* **Giaquinta, Mariano; et al., 94c:49046**
Steblovskaya, V. R. *see* **Daletskii, Yu. L., 94d:28018**
Sullivan, John M. *see* **Morgan, Frank; et al., 94m:73072**
Talenti, Giorgio On isoperimetric theorems of mathematical physics. **94i:49002**
Tasaki, Hiroyuki Mass minimizing submanifolds with respect to some Riemannian metrics. **94a:53097**
Triantafyllidis, Nicolas *see* **Geymonat, Giuseppe; et al., 94i:73009**
Wang, Guang Lie *see* **Wang, Rou Huai, 94h:35111**
Wang, Rou Huai (*with* Wang, Guang Lie) The geometric measure theoretical characterization of viscosity solutions to parabolic Monge-Ampère type equation. (English summary) **94h:35111**
Zeitouni, Ofer *see* **Mitter, Sanjoy K., 94g:60094**

49Q25 Surface area

Ji, Min Multiple solutions to the Douglas problem in S^n. (English summary) **94k:49047**

49Q99 None of the above, but in this section

Brokate, Martin (*with* Sprekels, Jürgen) Optimal control of shape memory alloys with solid-solid phase transitions. **94b:49072**
Chiti, Giuseppe (*with* Longinetti, Marco) Differential inequalities for Minkowski functionals of level sets. (English summary) **94b:49073**
Longinetti, Marco *see* **Chiti, Giuseppe, 94b:49073**
Sprekels, Jürgen *see* **Brokate, Martin, 94b:49072**

Items with secondary classifications in 49Q99

Bendsøe, Martin Philip *see* **Jog, C. S.; et al., 94m:73076** *and* **Topology design of structures, 94e:73046**
Degiovanni, Marco (*with* Lancelotti, Sergio) A note on nonsmooth functionals with infinitely many critical values. (Italian summary) **94h:49027**
Finn, Robert Green's identities and pendent liquid drops. I. (English summary) **94c:76030**
Haber, Robert Bruce *see* **Jog, C. S.; et al., 94m:73076**
Jog, C. S. (*with* Haber, Robert Bruce; Bendsøe, Martin Philip) Topology design with optimized, self-adaptive materials. (English summary) **94m:73076**
Klimov, V. S. Minimax critical values of nonsmooth functionals. (Russian. Russian summary) **94b:49028**
Lancelotti, Sergio *see* **Degiovanni, Marco, 94h:49027**
Moser, Jürgen (*with* Struwe, Michael) On a Liouville-type theorem for linear and nonlinear elliptic differential equations on a torus. (English summary) **94b:35051**
(Mota Soares, Carlos A.) *see* **Topology design of structures, 94e:73046**
Percivale, Danilo Folded shells: a variational approach. **94b:73038**
Struwe, Michael *see* **Moser, Jürgen, 94b:35051**
Vogel, Thomas I. Uniqueness of capillary surfaces in wedges and cones. **94b:58029**

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NATO Advanced Research Workshop:
Topology Design of Structures ★ Topology design of structures. **94e:73046**
Sesimbra ★ Topology design of structures. **94e:73046**
Topology design of structures ★ Topology design of structures. **94e:73046**

49Rxx Variational methods {For eigenvalues of operators, see 47A75.}

49R05 Variational approach to eigenvalues

Liu, Wen Bin (*with* Rubio, J. E.) A unified optimality condition for eigenvalue problems. (English summary) **94f:49046**
Najman, Branko (*with* Ye, Qiang) A minimax characterization for eigenvalues of Hermitian pencils. II. (English summary) **94f:49047**
Rubio, J. E. *see* **Liu, Wen Bin, 94f:49046**
Ye, Qiang *see* **Najman, Branko, 94f:49047**

Items with secondary classifications in 49R05

Ashbaugh, Mark S. (*with* Benguria, Rafael D.) Universal bounds for the low eigenvalues of Neumann Laplacians in n dimensions. (English summary) **94b:35191**
Benguria, Rafael D. *see* **Ashbaugh, Mark S., 94b:35191**
Lee, Gyou-Bong Some convergence rates for eigenvalues of intermediate operators. **94i:65066**
Lefter, Cătălin (*with* Motreanu, Dumitru) Critical point methods in nonlinear eigenvalue problems with discontinuities. (English summary) **94h:58040**
Motreanu, Dumitru *see* **Lefter, Cătălin, 94h:58040**
Nguyên Phuong Các A boundary value problem whose jumping nonlinearity is neither smooth nor Lipschitzian. (English summary) **94b:35117**
Schuricht, Friedemann Minimax principle for eigenvalue problems of variational inequalities in convex sets. **94h:47133**

49R10 Rayleigh-Ritz methods

Items with secondary classifications in 49R10

Binding, P. A. (*with* Najman, Branko) A variational principle in Krein space. (English summary) **94f:47040**
Najman, Branko *see* **Binding, P. A., 94f:47040**

49R20 Linear operators in Hilbert spaces

Items with secondary classifications in 49R20

Moskalenko, A. I. Mapping methods for classes of problems of the optimal control of systems with distributed parameters. (Russian. Russian summary) **94c:49017**

49S05 Variational principles of physics

Auchmuty, Giles Relaxed variational principles and algorithms for the equilibria of rotating self-gravitating fluids. **94j:49050**

Items with secondary classifications in 49S05

Bezmenov, I. V. A new method, based on the variational principle, for the transfer of the Sommerfeld radiation conditions to an artificial boundary of the domain. (Russian) **94k:35173**
Bogatyreva, N. A. (*with* Pyatnitskiĭ, E. S.) A minimax principle in mechanics. (Russian. Russian summary) **94m:70038**
Chen, Bang-Yen (*with* Dillen, Franki; Verstraelen, Leopold; Vrancken, Luc) A variational minimal principle characterizes submanifolds of finite type. (English and French summaries) **94g:49102**
De Simone, Antonio Energy minimizers for large ferromagnetic bodies. **94j:82084**
Dillen, Franki *see* **Chen, Bang-Yen; et al., 94g:49102**
Edelen, Dominic G. B. Gauge theory for an elementary dissipative process. (English summary) **94a:80018**
Kinderlehrer, David (*with* Ou, Biao) Second variation of liquid crystal energy at $x/|x|$. **94b:76010**
Kupershmidt, Boris A. ★ The variational principles of dynamics. (English summary) **94a:58057**
Lieb, Elliott H. Remarks on the Skyrme model. **94e:81357**
Mosco, Umberto Some variational aspects of discontinuous media. (Italian) **94g:35228**
Ou, Biao *see* **Kinderlehrer, David, 94b:76010**
Panagiotopoulos, P. D. (*with* Stavroulakis, G. E.) New types of variational principles based on the notion of quasidifferentiability. **94c:73070**
Pyatnitskiĭ, E. S. *see* **Bogatyreva, N. A., 94m:70038**
Serre, Denis Sur le principe variationnel des équations de la mécanique des fluides parfaits. (English and French summaries) [On the variational principle for the equations of perfect fluid dynamics] **94j:76056**
Shelukhin, V. V. A variational principle for the nonstationary linear Navier-Stokes equations. (English summary) **94b:35249**
— A variational principle in problems that are nonlocal with respect to time for linear evolution equations. (Russian. English and Russian summaries) **94c:34090**
Stavroulakis, G. E. *see* **Panagiotopoulos, P. D., 94c:73070**
Verstraelen, Leopold *see* **Chen, Bang-Yen; et al., 94g:49102**
Vrancken, Luc *see* **Chen, Bang-Yen; et al., 94g:49102**
Zhao, Ji Sheng A variational principle for energy problems in a fluid flow field and the finite element discretization of the energy equation. (Chinese. English and Chinese summaries)

51-XX Geometry {For algebraic geometry, see 14-XX.}

51-01 Instructional exposition (textbooks, tutorial papers, etc.)

Allaire, Richard *see* **Pallascio, Richard; et al., 94b:51004**
Aniţa, Alice *see* **Brânzei, Dan; et al., 94b:51001**
Aniţa, Sebastian[1] *see* **Brânzei, Dan; et al., 94b:51001**
(Beck, George) *see* **Coxeter, H. S. M., 94b:51002a** *and* **94b:51002b**
Beutelspacher, Albrecht (*with* Rosenbaum, Ute) ★ Projektive Geometrie. (German) [Projective geometry] **94c:51001**
Bix, Robert ★ Topics in geometry. **94m:51001**
van der Blij, F. Geometry in the fourth dimension. (Dutch) **94f:51001**
Brânzei, Dan (*with* Aniţa, Sebastian[1]; Aniţa, Alice) ★ Competenţă şi performanţă în geometrie. Vol. 1. (Romanian. Romanian summary) [Proficiency and performance in geometry. Vol. 1] **94b:51001**
(Cebrián, Francisco) *see* **Hilbert, David[1], 94e:51001**
Coxeter, H. S. M. ★ The real projective plane. **94b:51002a**
— ★ The real projective plane. **94b:51002b**
Greenberg, Marvin Jay ★ Euclidean and non-Euclidean geometries. **94k:51001**
Gutiérrez, Ángel Exploration des liens entre les niveaux de van Hiele et la géométrie tridimensionnelle. [Exploring the links between van Hiele levels and 3-dimensional geometry] **94b:51003**
Hilbert, David[1] ★ Fundamentos de la geometría. (Spanish. Spanish summary) [Foundations of geometry] **94e:51001**
Iversen, Birger ★ An invitation to geometry. **94a:51001**
Moise, Edwin E. ★ Elementary geometry from an advanced standpoint. **94f:51002**
Mongeau, Pierre *see* **Pallascio, Richard; et al., 94b:51004**
Pallascio, Richard (*with* Allaire, Richard; Mongeau, Pierre) Représentation de l'espace et enseignement de la géométrie. [Spatial representation and the teaching of geometry] **94b:51004**
Prasolov, V. V. ★ Задачи по планиметрии. Часть 2. (Russian. Russian summary) [Problems in plane geometry. Part 2] **94b:51005**
Rosenbaum, Ute *see* **Beutelspacher, Albrecht, 94c:51001**
(Sánchez-Ron, José Manuel) *see* **Hilbert, David[1], 94e:51001**
Veldkamp, G. R. Ten years after. (Dutch) **94m:51002**

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Biography:
Hilbert, David *see* **Hilbert, David[1], 94e:51001**

Items with secondary classifications in 51-01

Dixon, Robert ★ Mathographics. (English summary) **94h:51036**
Dudley, Underwood ★ The trisectors. (English summary) **94m:51028**
Feiste, Uwe *see* **Flachsmeyer, Jürgen; et al., 94b:00007**
Flachsmeyer, Jürgen (*with* Feiste, Uwe; Manteuffel, Karl) ★ Mathematik und ornamentale Kunstformen. (German) [Mathematics and ornamental art forms] **94b:00007**
Honsberger, Ross ★ Математические изюминки. (Russian) [Mathematical morsels] **94g:00001**
Iversen, Birger ★ Hyperbolic geometry. (English summary) **94b:51023**
Koecher, Max (*with* Krieg, Aloys) ★ Ebene Geometrie. (German. German summary) [Plane geometry] **94e:51027**
Krieg, Aloys *see* **Koecher, Max, 94e:51027**
van Lint, Jacobus H. Möbius planes. (Dutch) **94j:51016**
Manteuffel, Karl *see* **Flachsmeyer, Jürgen; et al., 94b:00007**
Maracchia, Silvio ★ Dalla geometria euclidea alla geometria iperbolica: il modello di Klein. (Italian) [From Euclidean geometry to hyperbolic geometry: the Klein model] **94d:51020**
Paalman-de Miranda, A. B. Constructions with ruler and compasses. (Dutch) **94j:51032**
(Savin, A. P.) *see* **Honsberger, Ross, 94g:00001**
(Savina, L. A.) *see* **Honsberger, Ross, 94g:00001**
Stahl, Saul ★ The Poincaré half-plane. (English summary) **94c:51041**
Stillwell, John ★ Geometry of surfaces. **94b:53001**
Veldkamp, G. R. Classical geometry. (Dutch) **94j:51029**

51-03 Historical (must also be assigned at least one classification number from Section 01)

Artmann, Benno A proof for Theodorus' theorem by drawing diagrams. (English summary) **94k:51002**
Auerbach, Herman Geometry of the triangle. (Polish) **94f:51003c**
— *see also* **Derkowska, Alicja; et al., 94f:51003a** *and* **Szurek, Michał, 94f:51003b**
Derkowska, Alicja (*with* Mikosz, Mirosława; Neugebauer, Adam) Herman Auerbach (1901–1942). (Polish) **94f:51003a**
Dobrovol'skiĭ, V. A. ★ У истоков аналитической геометрии. (Russian. Russian summary) [On the sources of analytic geometry] **94k:51003**
Grootendorst, A. W. Geometrical algebra in Euclid. (Dutch) **94d:51001**
Mikosz, Mirosława *see* **Derkowska, Alicja; et al., 94f:51003a**
Nagtegaal, C. G. J. History of synthetic projective geometry. (Dutch) **94j:51001**
Neugebauer, Adam *see* **Derkowska, Alicja; et al., 94f:51003a**
Szurek, Michał An introduction to Herman Auerbach's paper "Geometry of the triangle" [Wiadom. Mat. **29** (1992), no. 2, 234–251; MR 94f:51003c]. (Polish) **94f:51003b**
Toussaint, Godfried A new look at Euclid's second proposition. (English summary) **94e:51002**

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Biography:
Auerbach, Herman *see* **Derkowska, Alicja; et al., 94f:51003a**

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Abeles, Francine F. Charles L. Dodgson's geometric approach to arctangent relations for pi. (English, French and German summaries) **94k:01020**
Anellis, Irving H. Geometry in Russia in the XVIIth and early XVIIIth centuries. (Spanish) **94b:01015**
(Artin, Tom) *see* **Hansen, Vagn Lundsgaard, 94b:00002**
Bazhanov, V. A. The imaginary geometry of N. I. Lobachevskiĭ and the imaginary logic of N. A. Vasiliev. **94m:01019**
Bos, Henk J. M. "The bond with reality is cut"—Freudenthal on the foundations of geometry around 1900. (English summary) **94m:01025**
(Cebrián, Francisco) *see* **Hilbert, David[1], 94e:51001**
Davis, Philip J. ★ Spirals: from Theodorus to chaos. **94e:00001**
Fiocca, A. Descriptive geometry in Italy (1798–1838). (Italian) **94g:01001**
Garibaldi, Antonio Carlo On the Cartesian ovals. (Italian) **94f:01018**
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Gowing, Ronald A study of spirals: Cotes and Varignon. **94c:01012**
Greenberg, Marvin Jay ★ Euclidean and non-Euclidean geometries. **94k:51001**
Hansen, Vagn Lundsgaard ★ Geometry in nature. **94b:00002**
Hilbert, David[1] ★ Fundamentos de la geometría. (Spanish. Spanish summary) [Foundations of geometry] **94e:51001**
Hormigón Blázquez, Mariano (*with* Millán, A.) Projective geometry and applications in the second half of the nineteenth century. **94j:01004**
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(Knobloch, Eberhard) *see* **Leibniz, Gottfried Wilhelm**
Leibniz, Gottfried Wilhelm ★ De quadratura arithmetica circuli ellipseos et hyperbolae cujus corollarium est trigonometria sine tabulis. (Latin)
Li, Chun Tai The role of paradoxes in the development of geometry. (Chinese. English and Chinese summaries) **94b:01012**
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(Sánchez-Ron, José Manuel) *see* **Hilbert, David[1], 94e:51001**
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Stammler, Ludwig (*with* Vogel, Wolfgang) Ott-Heinrich Keller (1906–1990). (German)
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Vogel, Wolfgang *see* **Stammler, Ludwig**

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Biography:
Hilbert, David *see* **Hilbert, David[1], 94e:51001**

51–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 51–04

Banchoff, Thomas (*with* Cervone, Davide P.) Illustrating *Beyond the third dimension.* (English summary) (*see* **94h:00013**)
Cervone, Davide P. *see* **Banchoff, Thomas, (94h:00013)**
Hoggar, S. G. ★ Mathematics for computer graphics. **94i:68291**
Simonis, Juriaan Configurations and computers. (Dutch) **94c:51007**
Stärk, Roland Beispiele zur Anwendung eines Computeralgebrasystems in der Geometrie. (German summary) [Examples of the application of a computer algebra system in geometry] **94j:51028**

51–06 Proceedings, conferences, collections, etc.

(Beutelspacher, Albrecht) *see* **Finite geometry and combinatorics, 94h:51001**
(Buekenhout, F.) *see* **Finite geometry and combinatorics, 94h:51001**
(De Clerck, F.) *see* **Finite geometry and combinatorics, 94h:51001**
(Doyen, Jean) *see* **Finite geometry and combinatorics, 94h:51001**
(Hirschfeld, J. W. P.) *see* **Finite geometry and combinatorics, 94h:51001**
(Lemmens, P. W. H.) *see* **Geometry, from art to science, 94f:51004**
(Thas, J. A.) *see* **Finite geometry and combinatorics, 94h:51001**

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Conference:
Finite Geometry and Combinatorics ★ Finite geometry and combinatorics. **94h:51001**
Deinze ★ Finite geometry and combinatorics. **94h:51001**
Finite geometry and combinatorics ★ Finite geometry and combinatorics. **94h:51001**
Geometry, from art to science ★ Meetkunde, van kunst tot kunde. (Dutch) [Geometry, from art to science] **94f:51004**
Summer course 1991: geometrical structures ★ Vacantiecursus 1991: meetkundige structuren. (Dutch) [Summer course 1991: geometrical structures] **94a:51002**

Items with secondary classifications in 51–06

(Arasu, K. T.) *see* **Coding theory, design theory, group theory, 94b:00043**
(Aschbacher, Michael) *see* **Coding theory, design theory, group theory, 94b:00043**
(Bariotti, Adriano) *see* **Combinatorics 92, 94m:05003**
(Beutelspacher, Albrecht) *see* **Linear spaces, 94m:00026**
(Dinitz, Jeffrey H.) *see* **Coding theory, design theory, group theory, 94b:00043**
(Foote, Richard M.) *see* **Coding theory, design theory, group theory, 94b:00043**
(Gionfriddo, Mario) *see* **Combinatorics 92, 94m:05003**
(Hall, Marshall, Jr.) *see* **Coding theory, design theory, group theory, 94b:00043**
(Jungnickel, Dieter) *see* **Coding theory, design theory, group theory, 94b:00043**
(Lobachevskiĭ, N. I.) *see* **Dedicated to the memory of Lobachevskiĭ, 94c:01001**
(Shirokov, A. P.) *see* **Dedicated to the memory of Lobachevskiĭ, 94c:01001**
(Tallini, Giuseppe) *see* **Combinatorics 92, 94m:05003**
(Vanstone, Scott A.) *see* **Coding theory, design theory, group theory, 94b:00043**

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Anniversary:
Birth of Lobachevskiĭ, N. I. ★ Памяти Лобачевского посвящается. Вып. I. (Russian) [Dedicated to the memory of Lobachevskiĭ. No. I] **94c:01001**
Burlington, VT ★ Coding theory, design theory, group theory. **94b:00043**
Capri ★ Linear spaces. **94m:00026**
Catania ★ Combinatorics 92. **94m:05003**
Coding theory, design theory, group theory ★ Coding theory, design theory, group theory. **94b:00043**
Combinatorics 92 ★ Combinatorics 92. **94m:05003**
Conference:
Coding Theory, Design Theory and Group Theory ★ Coding theory, design theory, group theory. **94b:00043**
Combinatorics ★ Combinatorics 92. **94m:05003**
Linear Spaces ★ Linear spaces. **94m:00026**
Dedicated to the memory of Lobachevskiĭ ★ Памяти Лобачевского посвящается. Вып. I. (Russian) [Dedicated to the memory of Lobachevskiĭ. No. I] **94c:01001**
Linear spaces ★ Linear spaces. **94m:00026**

51Axx Linear incidence geometry

51A05 General theory and projective geometries

Bhattarai, H. N. Join decomposition of certain spaces. (English summary) **94h:51002**
Faure, Claude-Alain (*with* Frölicher, Alfred) Morphisms of projective geometries and of corresponding lattices. (English summary) **94f:51005**
Frölicher, Alfred *see* **Faure, Claude-Alain, 94f:51005**
Holland, Kitty L. Projective geometries of algebraically closed fields of characteristic zero. (English summary) **94i:51001**
Szociński, Brunon Some properties of the projective space. **94g:51001**

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(Beck, George) *see* **Coxeter, H. S. M., 94b:51002a** *and* **94b:51002b**
Buekenhout, F. A theorem of Parmentier characterizing projective spaces by polarities. (English summary) **94j:51006**
Coxeter, H. S. M. ★ The real projective plane. **94b:51002a**
— ★ The real projective plane. **94b:51002b**
Greferath, Marcus (*with* Schmidt, Stefan E.) A unified approach to projective lattice geometries. (English summary) **94c:51017a**
— (*with* Schmidt, Stefan E.) On Barbilian spaces in projective lattice geometries. (English summary) **94c:51017b**
Lakser, Harry On the characteristic of a projective geometry. **94a:51010**
Mu, Yu Jie Geometric transformations in graphic displays. (Chinese. English and Chinese summaries) **94i:51017**
Nagtegaal, C. G. J. History of synthetic projective geometry. (Dutch) **94j:51001**
Palej, Marian Transformation bipolaire par rapport aux faisceaux de quadriques homothétiques. [Bipolar transformation with respect to pencils of homothetic quadrics] **94c:51002**
— (*with* Tytkowski, Krzysztof) Un cas particulier de la transformation bipolaire par rapport à deux faisceaux de quadriques homothétiques. [A particular case of bipolar transformation with respect to two pencils of homothetic quadrics] **94c:51003**
Schmidt, Stefan E. *see* **Greferath, Marcus, 94c:51017a** *and* **94c:51017b**
Tytkowski, Krzysztof *see* **Palej, Marian, 94c:51003**

51A10 Homomorphism, automorphism and dualities

Bilaniuk, Stefan A note on (P, l)-correlations. (English summary) **94b:51006**
Iden, Oddvar Automorphism groups of free geometries. **94e:51003**
Palej, Marian Transformation bipolaire par rapport aux faisceaux de quadriques homothétiques. [Bipolar transformation with respect to pencils of homothetic quadrics] **94c:51002**
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Raju, A. Solai Coexistence of cubic elations and cubic homologies. I. (English summary) **94j:51002**
Rollero, Aldo Pairs of projective quintuples. (Italian. English and Italian summaries) **94d:51002**
Schröder, Eberhard M. On 0-distance-preserving permutations of affine and projective quadrics. (English summary) **94a:51003**
Strambach, Karl Multiplications with a prescribed group of automorphisms. **94c:51004**
Tytkowski, Krzysztof *see* **Palej, Marian, 94c:51003**

Items with secondary classifications in 51A10

Batten, Lynn Margaret (*with* Johnson, Peter Malcolm) The collineation groups of Figueroa planes. (English summary) **94j:51005**
Faure, Claude-Alain (*with* Frölicher, Alfred) Morphisms of projective geometries and of corresponding lattices. (English summary) **94f:51005**
Ferrar, J. C. Homomorphisms of Moufang-Veldkamp planes. (English summary) **94c:51016**
Frölicher, Alfred *see* **Faure, Claude-Alain, 94f:51005**
Johnson, Peter Malcolm *see* **Batten, Lynn Margaret, 94j:51005**

51A15 Structures with parallelism

Dubikajtis, L. Double affine space. (English summary) **94c:51005**
Funk, Martin (*with* Nagy, Péter T.) On collineation groups generated by Bol reflections. **94h:51003**
Karzel, Helmut (*with* Reinmiedl, B.) Pseudo-subaffine double spaces. **94e:51004**
Marchi, Mario Axiomatic characterization of weak affine spaces. (English summary) **94d:51003**
Nagy, Péter T. *see* **Funk, Martin, 94h:51003**
Reinmiedl, B. *see* **Karzel, Helmut, 94e:51004**

Items with secondary classifications in 51A15

Bisztriczky, T. (*with* Lorimer, J. W.) Axiom systems for affine Klingenberg spaces. **94e:51006**
Lorimer, J. W. *see* **Bisztriczky, T., 94e:51006**
Muzalewski, Michał (*with* Prażmowski, Krzysztof) Axiomatic investigations on symplectic geometry. **94g:51024**
Prażmowski, Krzysztof *see* **Muzalewski, Michał, 94g:51024**
Wettl, Ferenc Nuclei in finite non-Desarguesian projective planes. (English summary) **94m:51011**

51A20 Configuration theorems

Borobia, Alberto Mirror property for nonsingular mixed configurations of one line and k points in $\mathbf{R}^3$. (English summary) **94c:51006**
Dorwart, Harold L. The Schläfli double-six configurations. **94j:51003**
Lee, Seng Luan (*with* Phillips, G. M.) Pencils, Pappus' theorem and polynomial interpolation. **94g:51002**
Mandan, Sahib Ram On m-dimensional orthologic Veronese configuration. (English summary) **94g:51003**
Phillips, G. M. *see* **Lee, Seng Luan, 94g:51002**
Simonis, Jurisaan Configurations and computers. (Dutch) **94c:51007**

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Chung, Dean (*with* Graham, Ronald L.; Taylor, Herbert) Graceful configurations in the plane. **94i:05083**
Dubikajtis, L. Double affine space. (English summary) **94c:51005**
Funk, Martin (*with* Nagy, Péter T.) On collineation groups generated by Bol reflections. **94h:51003**
Graham, Ronald L. *see* **Chung, Dean; et al., 94i:05083**
Grünbaum, Branko Astral (n_k) configurations.
Karzel, Helmut (*with* Reinmiedl, B.) Pseudo-subaffine double spaces. **94e:51004**
Nagy, Péter T. *see* **Funk, Martin, 94h:51003**
Reinmiedl, B. *see* **Karzel, Helmut, 94e:51004**
Taylor, Herbert *see* **Chung, Dean; et al., 94i:05083**

51A25 Algebraization [see also 12Kxx, 20N05]

Muzalewski, Michał Vector products in affine geometry. **94c:51008**
— Skew field of proportions in dimension-free affine geometry. **94c:51009**

Items with secondary classifications in 51A25

Kusak, Eugeniusz A geometric construction of a norm function in metric vector spaces. **94c:51026**
Lakser, Harry On the characteristic of a projective geometry. **94a:51010**
Lettrich, Jaroslav The orthogonality in affine parallel structure. (English summary) **94c:51027**
Stroppel, Markus A categorical glimpse at the reconstruction of geometries. (English summary) **94c:51036**

51A30 Desarguesian and Pappian geometries

Havlicek, Hans On sets of lines corresponding to affine spaces. **94c:51010**
— Baer subspaces within Segre manifolds. **94j:51004**
Kusak, Eugeniusz A characterization of some incidence hyperbolic planes. **94g:51004**
Witczyńska, Danuta On some property of certain subspace systems in the projective space P_n. **94g:51005**
Witczyński, Krzysztof Pappus's theorem in the projective spaces of even dimension. **94f:51006**

Items with secondary classifications in 51A30

Beutelspacher, Albrecht (*with* Ueberberg, Johannes) Bruck's vision of regular spreads or What is the use of a Baer superspace? **94g:51006**
Bilaniuk, Stefan A note on (P, l)-correlations. (English summary) **94b:51006**
Dubikajtis, L. Double affine space. (English summary) **94c:51005**
Matulić-Bedenić, Ida The classification of projective planes of order 13 which possess an involution. (English and Serbo-Croatian summaries) **94g:51011**
Muzalewski, Michał Skew field of proportions in dimension-free affine geometry. **94c:51009**
Polonijo, Mirko Desargues quasigroups. (English and Serbo-Croatian summaries) **94e:20099**
Ueberberg, Johannes *see* **Beutelspacher, Albrecht, 94g:51006**

51A35 Non-Desarguesian affine and projective planes

Baldwin, John T. An almost strongly minimal non-Desarguesian projective plane. **94f:51007**
Barlotti, Adriano The work by Ray Chandra Bose on the representation of non-Desarguesian projective planes: further developments and open problems. **94b:51008**
Batten, Lynn Margaret (*with* Johnson, Peter Malcolm) The collineation groups of Figueroa planes. (English summary) **94j:51005**
Cossidente, Antonio (*with* Di Melfi, Maria Pompea) A result about Leisenring points. **94h:51004**
Di Melfi, Maria Pompea *see* **Cossidente, Antonio, 94h:51004**
Johnson, Peter Malcolm *see* **Batten, Lynn Margaret, 94j:51005**
Korchmáros, Gábor (*with* Mazzocca, F.) Note on a problem concerning nuclei. (English summary) **94h:51005**
Mazzocca, F. *see* **Korchmáros, Gábor, 94h:51005**

Items with secondary classifications in 51A35

Johnson, Norman Lloyd[1] Derivation. **94c:51021**
Suetake, Chihiro A remark on finite point transitive affine planes with two orbits on l_∞. **94f:51012**

51A40 Translation planes and spreads

Abatangelo, L. Maria On the collineation groups of a β-derived spread. (Italian. English summary) **94c:51011**
Beutelspacher, Albrecht (*with* Ueberberg, Johannes) Bruck's vision of regular spreads or What is the use of a Baer superspace? **94g:51006**
Orbán, B. (*with* Vasiu, Angela) On the generalisation of anchor introduced by F. Radó. **94g:51007**
Ueberberg, Johannes *see* **Beutelspacher, Albrecht, 94g:51006**
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Cordero, M. (*with* Figueroa, Raúl F.) On some new classes of semifield planes. **94h:51017**
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Eisele, Eberhard Topologische Divisionalgebren ohne zugehörige topologische affine Ebene. (English summary) [Topological division algebras without corresponding topological affine plane] **94j:51021**
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Heimbeck, Günter Lüneburgs merkwürdige Ebenen. [Lüneburg's remarkable planes] **94g:51009**
Hiramine, Yutaka On collineation groups with block orbits. (English summary) **94i:51008**
Jha, Vikram (*with* Wene, G. P.) The structure of the central units of a commutative semifield plane. (English summary) **94i:51009**
Johnson, Norman Lloyd[1] Derivation of partial flocks of quadratic cones. (English and Italian summaries) **94g:51012**
— (*with* Pomareda, Rolando) Translation planes admitting many homologies. (English summary) **94m:51010**
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Narayana Rao, M. L. (*with* Satyanarayana, K.; Rao, K. M. Arjuna) A flag transitive plane of order 49 and its translation complement. (English summary) **94g:51013**
— (*with* Kuppuswamy Rao, K.; Joshi, Vinod) A translation plane of order 7^2 with a very small translation complement. (English summary) **94h:51023**
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Riesinger, Rolf Faserungen, die aus Reguli mit gemeinsamer Berührprojektivität längs einer gemeinsamen Erzeugenden zusammengesetzt sind. (English summary) [Spreads that are composed of reguli with common tangent projectivity along a common generator] **94k:51017**
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51A45 Incidence structures imbeddable into projective geometries

Frohardt, Daniel E. (*with* Smith, Stephen D.) Universal embeddings for the ${}^3D_4(2)$ hexagon and J_2 near-octagon. (English summary) **94a:51004**
Kreuzer, Alexander Semiaffine spaces. (English summary) **94h:51006**
Pianta, Silvia Projective embedding of fibered groups and the Suzuki groups. **94e:51005**
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Barlotti, Adriano The work by Ray Chandra Bose on the representation of non-Desarguesian projective planes: further developments and open problems. **94b:51008**
Biondi, P. $\{1, 2, 3\}$-inversive planes which are embeddable into an inversive plane. (English summary) **94m:51018**
Cuypers, Hans (*with* Johnson, Peter Malcolm; Pasini, Antonio) On the embeddability of polar spaces. (English summary) **94f:51008**
Frohardt, Daniel E. (*with* Johnson, Peter Malcolm) Geometric hyperplanes in generalized n-gons with 3 points on a line. (English summary) **94h:51012**
Hall, Jonathan I. (*with* Shult, Ernest E.) Geometric hyperplanes of nonembeddable Grassmannians. **94b:51010**
Hiramine, Yutaka (*with* Johnson, Norman Lloyd[1]) Characterizations of regulus nets. **94h:51014**
Johnson, Norman Lloyd[1] *see* **Hiramine, Yutaka, 94h:51014**
Johnson, Peter Malcolm *see* **Cuypers, Hans; et al., 94f:51008** *and* **Frohardt, Daniel E., 94h:51012**
Kaya, R. (*with* Olgun, Ş.) Construction of some hyperbolic planes from finite projective planes using Baer subplanes. (English summary) **94g:51018**
Kusak, Eugeniusz A characterization of some incidence hyperbolic planes. **94g:51004**
Lo Re, P. M. (*with* Olanda, D.) $\{0, 2, 4\}$-semiaffine planes. (English summary) **94e:51019**
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Shult, Ernest E. *see* **Hall, Jonathan I., 94b:51010**
Sprague, Alan P. Partial geometric lattices embedded in projective spaces. (English summary) **94j:51010**

51A50 Polar geometry, symplectic spaces, orthogonal spaces

Buekenhout, F. A theorem of Parmentier characterizing projective spaces by polarities. (English summary) **94j:51006**
Cuypers, Hans (*with* Johnson, Peter Malcolm; Pasini, Antonio) On the embeddability of polar spaces. (English summary) **94f:51008**
— (*with* Johnson, Peter Malcolm; Pasini, Antonio) On the classification of polar spaces. (English summary) **94h:51007**
— Symplectic geometries, transvection groups, and modules. (English summary) **94m:51003**
Fryda, Jan Quasibilinear functionals. (English summary) **94h:51008**
— Quasiorthogonal projective spaces. (English summary) **94h:51009**
Johnson, Peter Malcolm *see* **Cuypers, Hans; et al., 94f:51008** *and* **94h:51007**
Pasini, Antonio *see* **Cuypers, Hans; et al., 94f:51008** *and* **94h:51007**
Shult, Ernest E. A remark on Grassmann spaces and half-spin geometries. **94k:51004**
Wan, Zhe Xian Singular pseudosymplectic geometry over finite fields of characteristic 2. (English summary) **94c:51012**

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Cuypers, Hans Finite locally generalized quadrangles with affine planes. (English summary) **94a:51013**
De Clerck, F. (*with* Gevaert, H.; Thas, J. A.) Partial geometries and copolar spaces. (English summary) **94d:51009**
Gevaert, H. *see* **De Clerck, F.; et al., 94d:51009**
Moorhouse, G. Eric Ovoids from the E_8 root lattice. (English summary) **94d:51011**
Schroth, Andreas E. Topological antiregular quadrangles. (English summary) **94m:51023**
Shult, Ernest E. Generalized hexagons as geometric hyperplanes of near hexagons. **94d:51008**
Thas, J. A. *see* **De Clerck, F.; et al., 94d:51009**

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Gelashvili, T. M. *see* **Lashkhi, A. A., 94c:51013**
Lashkhi, A. A. (*with* Gelashvili, T. M.) The fundamental theorem of affine geometry for modules and Lie algebras. (Russian and Georgian summaries) **94c:51013**

Items with secondary classifications in 51A99

Bhattarai, H. N. Join decomposition of certain spaces. (English summary) **94h:51002**
Kreuzer, Alexander Semiaffine spaces. (English summary) **94h:51006**
Shult, Ernest E. On Veldkamp planes. (English summary) **94j:51007**

51Bxx Nonlinear incidence geometry

51B05 General theory

Benz, Walter The bundle theorem with its degenerations in the geometry of chains. **94d:51004**
Bonisoli, Arrigo Automorphisms of (B)-geometries. (English summary) **94d:51005**
Fisher, J. Chris Models and theorems of the classical circle planes. **94d:51006**
Kosiorek, Jarosław (*with* Matraś, Andrzej) Central automorphisms of touch-planes of chains. **94c:51014**
Matraś, Andrzej *see* **Kosiorek, Jarosław, 94c:51014**

Items with secondary classifications in 51B05

Blaser, Harry ★ Regelmässige Kreisteilungen und Kreisketten. (German) [Regular cyclotomies and chains of circles] **94a:00005**
Iden, Oddvar Automorphism groups of free geometries. **94e:51003**
Steinke, Günter F. A remark on Benz planes of order 9. (English summary) **94g:51019**

51B10 Möbius geometries

Havlicek, Hans On the geometry of field extensions. (English summary) **94a:51005**
Kroll, H.-J. Finite halfordered circle structures. **94i:51002**
Lester, J. A. Points of difference: relative infinity in the Euclidean plane. **94b:51009**

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Bagchi, Bhaskar A geometric characterisation of Miquelian inversive planes of even order. (English summary) **94f:51025**
Benz, Walter The bundle theorem with its degenerations in the geometry of chains. **94d:51004**
Bonisoli, Arrigo Point-primitive inversive planes of odd order. **94g:51017**
Faina, Giorgio Plane partitions and sections of nonsingular quadrics in PG$(3, q)$. (Italian. English and Italian summaries) **94b:51021**
Kosiorek, Jarosław (*with* Matraś, Andrzej) Central automorphisms of touch-planes of chains. **94c:51014**
Matraś, Andrzej *see* **Kosiorek, Jarosław, 94c:51014**
Quattrocchi, P. (*with* Rinaldi, Gloria) Finite tangent-circle structures. (English summary) **94e:51017**
Rinaldi, Gloria *see* **Quattrocchi, P., 94e:51017**
Wilker, J. B. The quaternion formalism for Möbius groups in four or fewer dimensions. (English summary) **94c:20086**

51B15 Laguerre geometries

Rinaldi, Gloria Laguerre semi-planes. (English summary) **94a:51006**

Items with secondary classifications in 51B15

Artzy, Rafael Dynamik von Polynomen in Kreisebenen. (German summary) [Dynamics of polynomials in circular planes] **94c:58165**
Benz, Walter The bundle theorem with its degenerations in the geometry of chains. **94d:51004**
Faina, Giorgio Plane partitions and sections of nonsingular quadrics in PG$(3, q)$. (Italian. English and Italian summaries) **94b:51021**
Kosiorek, Jarosław (*with* Matraś, Andrzej) Central automorphisms of touch-planes of chains. **94c:51014**
Matraś, Andrzej *see* **Kosiorek, Jarosław, 94c:51014**
Quattrocchi, P. (*with* Rinaldi, Gloria) Finite tangent-circle structures. (English summary) **94e:51017**
Rinaldi, Gloria *see* **Quattrocchi, P., 94e:51017**
Schroth, Andreas E. Topological antiregular quadrangles. (English summary) **94m:51023**
Steinke, Günter F. Elation Laguerre planes of order p^2 that admit an automorphism group of order p^2 in the elation complement. (English summary) **94h:51026**

51B20 Minkowski geometries

Jakóbowski, Jan A full generalization of Moulton's method applied to Minkowski axioms. **94c:51015**

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Artzy, Rafael Dynamik von Polynomen in Kreisebenen. (German summary) [Dynamics of polynomials in circular planes] **94c:58165**
Benz, Walter The bundle theorem with its degenerations in the geometry of chains. **94d:51004**
Bonisoli, Arrigo Automorphisms of (B)-geometries. (English summary) **94d:51005**
Faina, Giorgio Plane partitions and sections of nonsingular quadrics in PG$(3, q)$. (Italian. English and Italian summaries) **94b:51021**
Kosiorek, Jarosław (*with* Matraś, Andrzej) Central automorphisms of touch-planes of chains. **94c:51014**
Matraś, Andrzej *see* **Kosiorek, Jarosław, 94c:51014**
Quattrocchi, P. (*with* Rinaldi, Gloria) Finite tangent-circle structures. (English summary) **94e:51017**
Rinaldi, Gloria *see* **Quattrocchi, P., 94e:51017**

51B25 Lie geometries

Hall, Jonathan I. (*with* Shult, Ernest E.) Geometric hyperplanes of nonembeddable Grassmannians. **94b:51010**
Shult, Ernest E. *see* **Hall, Jonathan I., 94b:51010**

Items with secondary classifications in 51B25

Schroth, Andreas E. Topological antiregular quadrangles. (English summary) **94m:51023**

51C05 Ring geometry (Hjelmslev, Barbilian, etc.)

Bisztriczky, T. (*with* Lorimer, J. W.) Axiom systems for affine Klingenberg spaces. **94e:51006**
Ferrar, J. C. Homomorphisms of Moufang-Veldkamp planes. (English summary) **94c:51016**
Fischbach, Gerald Ein Darstellungssatz für Translations-Hjelmslev-Ebenen mit Spiegelungen. (English summary) [A representation theorem for Hjelmslev translation planes with reflections] **94a:51007**
Greferath, Marcus (*with* Schmidt, Stefan E.) A unified approach to projective lattice geometries. (English summary) **94c:51017a**
— (*with* Schmidt, Stefan E.) On Barbilian spaces in projective lattice geometries. (English summary) **94c:51017b**
Kreuzer, Alexander Modules over Hjelmslev rings. (English summary) **94e:51007**
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Schmidt, Stefan E. *see* **Greferath, Marcus, 94c:51017a** *and* **94c:51017b**
Veldkamp, Ferdinand D. n-Barbilian domains. (English summary) **94a:51008**

Items with secondary classifications in 51C05

Knüppel, Frieder Reflection groups—on pre-Hjelmslev groups and related topics. (English summary) **94a:51023**

51Dxx Geometric closure systems

51D10 Abstract geometries with exchange axiom

Bennett, M. K. *see* **Piziak, R., 94i:51003**
Piziak, R. (*with* Bennett, M. K.) Lattice geometries. **94i:51003**

51D15 Abstract geometries with parallelism

Husty, Manfred L. (*with* Nagy, Péter T.) Parallelismus auf Liegruppen. [Parallelism on Lie groups] **94g:51008**
Nagy, Péter T. *see* **Husty, Manfred L., 94g:51008**

Items with secondary classifications in 51D15

Grochowska-Prażmowska, Małgorzata A proof of Pasch's axiom in the absolute theory of oriented parallelity. (English summary) **94d:51016**

51D20 Combinatorial geometries [see also 05B25, 05B35]

Bonin, Joseph E. Automorphism groups of higher-weight Dowling geometries. (English summary) **94k:51005**
Dress, Andreas W. M. (*with* Terhalle, W.) A combinatorial approach to p-adic geometry. (English summary) **94e:51008**
Glynn, David G. A geometrical isomorphism algorithm. (English summary) **94a:51009**
Terhalle, W. *see* **Dress, Andreas W. M., 94e:51008**

Items with secondary classifications in 51D20

Voss, Klaus ★ Discrete images, objects, and functions in $\mathbf{Z}^n$. (English summary) **94f:68002**

51D25 Lattices of subspaces [see also 05B35]

Greferath, Marcus Global-affine morphisms of projective lattice geometries. (English summary) **94f:51009**
Lakser, Harry On the characteristic of a projective geometry. **94a:51010**
Schmidt, Stefan E. A lattice-geometric proof of Wedderburn's theorem. (English summary) **94d:51007**
— On meet-complements in Cohn geometries. (English summary) **94f:51010**
Shult, Ernest E. On Veldkamp planes. (English summary) **94j:51007**

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Bennett, M. K. *see* **Piziak, R., 94i:51003**
Bouchemakh, Isma (*with* Engel, Konrad) Interval stability and interval covering property in finite posets. (English summary) **94b:06006**
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Greferath, Marcus (*with* Schmidt, Stefan E.) A unified approach to projective lattice geometries. (English summary) **94c:51017a**
— (*with* Schmidt, Stefan E.) On Barbilian spaces in projective lattice geometries. (English summary) **94c:51017b**
Piziak, R. (*with* Bennett, M. K.) Lattice geometries. **94i:51003**
Schmidt, Stefan E. *see* **Greferath, Marcus, 94c:51017a** *and* **94c:51017b**

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Items with secondary classifications in 51D99

Dress, Andreas W. M. (*with* Terhalle, W.) A combinatorial approach to p-adic geometry. (English summary) **94e:51008**
Terhalle, W. *see* **Dress, Andreas W. M., 94e:51008**

51Exx Finite geometry and special incidence structures

51E05 General block designs [see also 05B05]

Abe, Tomoko (*with* Yoshiara, Satoshi) On Suzuki's construction of 2-designs over GF(q). **94j:51008**

Clay, James R. (*with* Kiechle, Hubert) Linear codes from planar nearrings and Möbius planes. (English summary) **94k:51006**
Jackson, Wen-Ai A characterization of Hadamard designs with $SL(2, q)$ acting transitively. (English summary) **94h:51010**
Kiechle, Hubert *see* **Clay, James R., 94k:51006**
Metsch, Klaus Extending the complement of the union of disjoint Baer subplanes to a projective plane. (English summary) **94k:51007**
Rinaldi, Gloria Transformation of incidence structures and sharply multiply transitive permutation sets. (English summary) **94h:51011**
Sane, Sharad S. (*with* Shrikhande, Mohan S.) Some characterizations of quasi-symmetric designs with a spread. (English summary) **94a:51011**
Shrikhande, Mohan S. *see* **Sane, Sharad S., 94a:51011**
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Hoffman, Dean G. (*with* Kreher, Donald L.) The bigraphical t-wise balanced designs of index 1. (English summary) **94j:05022**
Kantor, William M. 2-transitive and flag-transitive designs. **94e:51018**
Key, J. D. Designs, codes and rigidity theorems. (English summary) **94m:05024**
Kreher, Donald L. *see* **Hoffman, Dean G., 94j:05022**
Long, Stephen A generalization of the notion of ovals to symmetric designs. (English summary) **94f:05015**
Mullen, Gary L. A series of combinatorial constructions motivated by Raj Chandra Bose. **94e:05060**
Penttila, Tim One-point extensions of finite inversive planes. (English summary) **94k:51016**
Tonchev, Vladimir D. Quasi-symmetric designs, codes, quadrics, and hyperplane sections. (English summary) **94m:05030**
Wang, Xiu Yu *see* **You, Hong, 94m:51021**
You, Hong (*with* Wang, Xiu Yu) Using one-dimensional nonisotropic subspaces in pseudosymplectic geometry over finite fields of characteristic 2 to construct a class of PBIB designs. (Chinese. English summary) **94m:51021**

51E10 Steiner systems

Armanious, M. H. The associated geometric category of the category of Steiner triple systems. (English summary) **94e:51009**
Delandtsheer, Anne 2-designs with a group transitive on the pairs of intersecting lines. (English summary) **94a:51012**

Items with secondary classifications in 51E10

Zeitler, Herbert Steiner-Systeme und Stein-Quasigruppen. (German summary) [Steiner systems and Stein quasigroups] **94m:05033**

51E12 Generalized quadrangles, generalized polygons

Bader, L. (*with* Lunardon, G.) Generalized hexagons and BLT-sets. (English summary) **94m:51004**
Brouwer, A. E. The complement of a geometric hyperplane in a generalized polygon is usually connected. (English summary) **94m:51005**
Cameron, Peter J. Extended generalised quadrangles—a survey. **94k:51008**
Cuypers, Hans Finite locally generalized quadrangles with affine planes. (English summary) **94a:51013**
De Smet, Veerle (*with* Van Maldeghem, Hendrik) The finite Moufang hexagons coordinatized. (English summary) **94m:51006**
Frohardt, Daniel E. (*with* Johnson, Peter Malcolm) Geometric hyperplanes in generalized n-gons with 3 points on a line. (English summary) **94h:51012**
Grundhöfer, T. (*with* Joswig, M.; Stroppel, Markus) Slanted symplectic quadrangles. (English summary) **94m:51007**
Hobart, Sylvia A. (*with* Payne, Stanley E.) Reconstructing a generalized quadrangle from its distance two association scheme. (English summary) **94h:51013**
Johnson, Norman Lloyd[1] Translation planes and related combinatorial structures. **94a:51014**
Johnson, Peter Malcolm *see* **Frohardt, Daniel E., 94h:51012**
Joswig, M. *see* **Grundhöfer, T.; et al., 94m:51007**
Lunardon, G. *see* **Bader, L., 94m:51004**
Ott, U. Generalized n-gons in trees. (English summary) **94m:51008**
Pasini, Antonio Remarks on double ovoids in finite classical generalized quadrangles, with an application to extended generalized quadrangles. (English summary) **94c:51018**
Payne, Stanley E. Collineations of the generalized quadrangles associated with q-clans. (English summary) **94e:51010**
— Coherent configurations derived from quasiregular points in generalized quadrangles. (English summary) **94j:51009**
— *see also* **Hobart, Sylvia A., 94h:51013**
Shult, Ernest E. Generalized hexagons as geometric hyperplanes of near hexagons. **94d:51008**
Stroppel, Markus *see* **Grundhöfer, T.; et al., 94m:51007**
Van Maldeghem, Hendrik *see* **De Smet, Veerle, 94m:51006**

Items with secondary classifications in 51E12

Cameron, Peter J. Finiteness questions for geometries. (English summary) **94b:51018**
Dehon, Michel A geometry of rank 5 associated with $PGO_5(3)$. (English summary) **94k:51014**
Del Fra, Alberto (*with* Ghinelli-Smit, Dina; Hughes, Daniel R.) Extended partial geometries with minimal μ. **94c:51019a**
Frohardt, Daniel E. (*with* Smith, Stephen D.) Universal embeddings for the ${}^3D_4(2)$ hexagon and J_2 near-octagon. (English summary) **94a:51004**
— (*with* Johnson, Peter Malcolm) Geometric hyperplanes in generalized hexagons of order (2, 2). (English summary) **94m:20096**
Ghinelli-Smit, Dina *see* **Del Fra, Alberto; et al., 94c:51019a**
Haemers, W. H. There exists no (76, 21, 2, 7) strongly regular graph. (English summary) **94m:05207**
Hobart, Sylvia A. (*with* Hughes, Daniel R.) EpGs with minimal μ. II. **94c:51019b**
Hughes, Daniel R. *see* **Del Fra, Alberto; et al., 94c:51019a** *and* **Hobart, Sylvia A., 94c:51019b**
Johnson, Peter Malcolm *see* **Frohardt, Daniel E., 94m:20096**
Lazebnik, Felix (*with* Ustimenko, V. A.) New examples of graphs without small cycles and of large size. (English summary) **94j:05071**
Pasechnik, D. V. New examples of finite C_2-geometries. (English summary) **94c:51025**
Smith, Stephen D. *see* **Frohardt, Daniel E., 94a:51004**
Ustimenko, V. A. *see* **Lazebnik, Felix, 94j:05071**

51E14 Finite partial geometries (general), nets, partial spreads

Blokhuis, Aart (*with* Metsch, Klaus) On the size of a maximal partial spread. (English summary) **94i:51004**
van Dam, Edwin R. Classification of spreads of $PG(3, 4) \setminus PG(3, 2)$. (English summary) **94i:51005**
De Clerck, F. (*with* Gevaert, H.; Thas, J. A.) Partial geometries and copolar spaces. (English summary) **94d:51009**
— (*with* Tonchev, Vladimir D.) Partial geometries and quadrics. (English summary) **94e:51011**
Del Fra, Alberto (*with* Ghinelli-Smit, Dina; Hughes, Daniel R.) Extended partial geometries with minimal μ. **94c:51019a**
Dougherty, Steven Nets and their codes. (English summary) **94e:51012**
Gevaert, H. *see* **De Clerck, F.; et al., 94d:51009**
Ghinelli-Smit, Dina *see* **Del Fra, Alberto; et al., 94c:51019a**
Heden, Olof Maximal partial spreads and the modular n-queen problem. (English summary) **94m:51009**
Hiramine, Yutaka On nets of order q^2 and degree $q + 1$ admitting $GL(2, q)$. (English summary) **94k:51009**
— (*with* Johnson, Norman Lloyd[1]) Characterizations of regulus nets. **94h:51014**
Hobart, Sylvia A. (*with* Hughes, Daniel R.) EpGs with minimal μ. II. **94c:51019b**
Hughes, Daniel R. Partial geometries of rank n. **94b:51011**
— *see also* **Del Fra, Alberto; et al., 94c:51019a** *and* **Hobart, Sylvia A., 94c:51019b**
Johnson, Norman Lloyd[1] *see* **Hiramine, Yutaka, 94h:51014**
Jungnickel, Dieter Maximal partial spreads and transversal-free translation nets. (English summary) **94c:51020**
Metsch, Klaus On the maximum size of a maximal partial plane. (English and Italian summaries) **94i:51006**
— *see also* **Blokhuis, Aart, 94i:51004**
Moorhouse, G. Eric On codes of Bruck nets and projective planes. (English summary) **94h:51015**
Ostrom, T. G. Hyper-reguli. (English summary) **94i:51007**
Sprague, Alan P. Partial geometric lattices embedded in projective spaces. (English summary) **94j:51010**
Thas, J. A. *see* **De Clerck, F.; et al., 94d:51009**
Tonchev, Vladimir D. *see* **De Clerck, F., 94e:51011**

Items with secondary classifications in 51E14

Baker, R. D. (*with* Ebert, Gary Lee; Korchmáros, Gábor; Szőnyi, Tamás) Orthogonally divergent spreads of Hermitian curves. (English summary) **94k:51013**
Cuypers, Hans Finite locally generalized quadrangles with affine planes. (English summary) **94a:51013**
Del Fra, Alberto (*with* Ghinelli-Smit, Dina; Pasini, Antonio) Locally partial geometries with different types of residues. (English summary) **94d:51013**
Ebert, Gary Lee *see* **Baker, R. D.; et al., 94k:51013**
Evans, Anthony B. ★ Orthomorphism graphs of groups. **94e:05004**
Ghinelli-Smit, Dina *see* **Del Fra, Alberto; et al., 94d:51013**
Hachenberger, Dirk On a combinatorial problem in group theory. (English summary) **94i:20037**
Korchmáros, Gábor *see* **Baker, R. D.; et al., 94k:51013**
Mavron, V. C. (*with* Wallis, W. D.) Cubic arcs in cubic nets. (English summary) **94g:05016**
Pasini, Antonio *see* **Del Fra, Alberto; et al., 94d:51013**
Szőnyi, Tamás *see* **Baker, R. D.; et al., 94k:51013**
Thas, J. A. Recent results on flocks, maximal exterior sets and inversive planes. **94f:51014**
Wallis, W. D. *see* **Mavron, V. C., 94g:05016**

51E15 Affine and projective planes

Banning, Jan Ein explizites Modell der projektiven Ebene der Ordnung 5. [An explicit model of the projective plane of order 5] **94j:51011**
Charnes, Chris Quadratic matrices and the translation planes of order 5^2. **94h:51016**
Cordero, M. p-primitive semifield planes. **94e:51013**
— (*with* Figueroa, Raúl F.) On some new classes of semifield planes. **94h:51017**
Figueroa, Raúl F. *see* **Cordero, M., 94h:51017**
Heimbeck, Günter Lüneburgs merkwürdige Ebenen. [Lüneburg's remarkable planes] **94g:51009**
Hiramine, Yutaka On collineation groups with block orbits. (English summary) **94i:51008**
Ho, Chat Yin Projective planes with a regular collineation group and a question about powers of a prime. **94d:51010**
Jha, Vikram (*with* Wene, G. P.) The structure of the central units of a commutative semifield plane. (English summary) **94i:51009**
Johnson, Norman Lloyd[1] Derivation. **94c:51021**
— (*with* Pomareda, Rolando) Translation planes admitting many homologies. (English summary) **94m:51010**
Keedwell, A. D. More simple constructions for elliptic cubic curves with small numbers of points. (English summary) **94j:51012**
Lorimer, Peter The groups A_7, A_8 and a projective plane of order 16. (English summary) **94g:51010**

Matulić-Bedenić, Ida The classification of projective planes of order 13 which possess an involution. (English and Serbo-Croatian summaries) **94g:51011**
Maurras, Jean-François The line-polytope of a finite affine plane. (English summary) **94f:51011**
Nakagawa, Nobuo The nonexistence of right cyclic planar functions of degree p^n for $n \geq 2$. (English summary) **94b:51012**
Pomareda, Rolando *see* **Johnson, Norman Lloyd[1], 94m:51010**
Prince, Alan R. The flag-transitive affine planes of order 27. **94a:51015**
Rotman, Joseph J. Projective planes, graphs, and simple algebras. (English summary) **94k:51010**
Saetake, Chihiro A remark on finite point transitive affine planes with two orbits on l_∞. **94f:51012**
Wan, Zhe Xian Further studies on singular symplectic, unitary, and orthogonal geometries over finite fields. (English summary) **94j:51013**
Wene, G. P. *see* **Jha, Vikram, 94i:51009**

Items with secondary classifications in 51E15

Chakravarti, I. M. A three-class association scheme on the flags of a finite projective plane and a (PBIB) design defined by the incidence of the flags and the Baer subplanes in PG$(2, q^2)$. (English summary) **94h:51027**
Evans, Anthony B. ★ Orthomorphism graphs of groups. **94e:05004**
Hiramine, Yutaka On finite affine planes with a 2-transitive orbit on l_∞. **94m:20006**
Ho, Chat Yin Planar Singer groups with even order multiplier groups. (English summary) **94m:20007**
Korchmáros, Gábor (*with* Mazzocca, F.) Note on a problem concerning nuclei. (English summary) **94h:51005**
van Lint, Jacobus H. Möbius planes. (Dutch) **94j:51016**
Mazzocca, F. *see* **Korchmáros, Gábor, 94h:51005**
Metsch, Klaus Extending the complement of the union of disjoint Baer subplanes to a projective plane. (English summary) **94k:51007**
Raju, A. Solai Coexistence of cubic elations and cubic homologies. I. (English summary) **94j:51002**
Rinaldi, Gloria Transformation of incidence structures and sharply multiply transitive permutation sets. (English summary) **94h:51011**
Thompson, John G. Algebraic integers all of whose algebraic conjugates have the same absolute value. (English summary) **94d:11082**

51E20 Combinatorial structures in finite projective spaces [see also 05Bxx]

Beutelspacher, Albrecht (*with* Jungnickel, Dieter; van Oorschot, P. C.; Vanstone, Scott A.) Pair-splitting sets in AG(m, q). (English summary) **94f:51013**
Blokhuis, Aart Polynomials in finite geometries and combinatorics. (English summary) **94h:51018**
— (*with* Szőnyi, Tamás) Sets with a large number of nuclei on a conic. (English summary) **94a:51016**
Chakravarti, I. M. Geometric construction of some families of two-class and three-class association schemes and codes from nondegenerate and degenerate Hermitian varieties. (English summary) **94b:51013**
Del Fra, Alberto (*with* Migliori, G.) On sets of odd type in a projective plane of order q. (English summary) **94c:51022**
De Resmini, Marialuisa J. On the semifield plane of order 16 with kern GF(4). (English summary) **94e:51014**
Johnson, Norman Lloyd[1] Derivation of partial flocks of quadratic cones. (English and Italian summaries) **94g:51012**
Jungnickel, Dieter *see* **Beutelspacher, Albrecht; et al., 94f:51013**
Kordecki, Wojciech On the rank of a random submatroid of projective geometry. **94b:51014**
Laywine, Charles F. A counterexample to a conjecture relating complete sets of frequency squares and affine geometries. (English summary) **94h:51019**
Migliori, G. *see* **Del Fra, Alberto, 94c:51022**
Moorhouse, G. Eric Ovoids from the E_8 root lattice. (English summary) **94d:51011**
Narayana Rao, M. L. (*with* Satyanarayana, K.; Rao, K. M. Arjuna) A flag transitive plane of order 49 and its translation complement. (English summary) **94g:51013**
van Oorschot, P. C. *see* **Beutelspacher, Albrecht; et al., 94f:51013**
Rao, K. M. Arjuna *see* **Narayana Rao, M. L.; et al., 94g:51013**
Satyanarayana, K. *see* **Narayana Rao, M. L.; et al., 94g:51013**
Szőnyi, Tamás *see* **Blokhuis, Aart, 94a:51016**
Thas, J. A. Recent results on flocks, maximal exterior sets and inversive planes. **94f:51014**
Vanstone, Scott A. *see* **Beutelspacher, Albrecht; et al., 94f:51013**

Items with secondary classifications in 51E20

Biliotti, M. (*with* Korchmáros, Gábor) Some new results on collineation groups preserving an oval of a finite projective plane. **94c:51023**
Blokhuis, Aart (*with* Schmitt, R. J. M.; Wilbrink, H. A.) On the number of lines in a linear space on $p^2 + p + 1$ points. (English summary) **94f:51026**
— (*with* Metsch, Klaus) Large minimal blocking sets, strong representative systems, and partial unitals. (English summary) **94k:51011**
Bonin, Joseph E. Modular elements of higher-weight Dowling lattices. (English summary) **94h:05018**
Brouwer, A. E. (*with* Fon-Der-Flaass, D. G.; Shpektorov, S. V.) Locally co-Heawood graphs. (English summary) **94k:05155**
Del Fra, Alberto (*with* Ghinelli-Smit, Dina; Pasini, Antonio) Affine attenuated spaces. (English summary) **94f:51024**
Ebert, Gary Lee Some nonreplaceable nests. (English summary) **94f:51022**
Edwards, S. R. *see* **Killgrove, R. B.; et al., 94m:51020**
Fon-Der-Flaass, D. G. *see* **Brouwer, A. E.; et al., 94k:05155**
Ghinelli-Smit, Dina *see* **Del Fra, Alberto; et al., 94f:51024**
Glynn, David G. A geometrical representation theory for orthogonal arrays. (English summary) **94m:05039**
Hammad, A. *see* **Killgrove, R. B.; et al., 94m:51020**
Hiramine, Yutaka (*with* Johnson, Norman Lloyd[1]) Characterizations of regulus nets. **94h:51014**
Johnson, Norman Lloyd[1] Translation planes and related combinatorial structures. **94a:51014**
— *see also* **Hiramine, Yutaka, 94h:51014**
Key, J. D. Designs, codes and rigidity theorems. (English summary) **94m:05024**
Killgrove, R. B. (*with* Sternfeld, R. W.; Edwards, S. R.; Tamez, R.; Hammad, A.) Planes of order 11 and other topics. **94m:51020**
Korchmáros, Gábor *see* **Biliotti, M., 94c:51023**
Laywine, Charles F. (*with* Mullen, Gary L.) Mutually orthogonal frequency hypercubes and affine geometries. (English summary) **94m:05041**
Metsch, Klaus On the maximum size of a maximal partial plane. (English and Italian summaries) **94i:51006**
— *see also* **Blokhuis, Aart, 94k:51011**
Mullen, Gary L. *see* **Laywine, Charles F., 94m:05041**
Munemasa, A. (*with* Shpektorov, S. V.) A local characterization of the graphs of alternating forms. (English summary) **94k:05161**
— (*with* Pasechnik, D. V.; Shpektorov, S. V.) A local characterization of the graphs of alternating forms and the graphs of quadratic forms over GF(2). (English summary) **94k:05162**
Pasechnik, D. V. *see* **Munemasa, A.; et al., 94k:05162**
Pasini, Antonio Remarks on double ovoids in finite classical generalized quadrangles, with an application to extended generalized quadrangles. (English summary) **94c:51018**
— *see also* **Del Fra, Alberto; et al., 94f:51024**
Schmitt, R. J. M. *see* **Blokhuis, Aart; et al., 94f:51026**
Shpektorov, S. V. *see* **Brouwer, A. E.; et al., 94k:05155; Munemasa, A., 94k:05161** *and* **94k:05162**
Sternfeld, R. W. *see* **Killgrove, R. B.; et al., 94m:51020**
Tamez, R. *see* **Killgrove, R. B.; et al., 94m:51020**
Tonchev, Vladimir D. Quasi-symmetric designs, codes, quadrics, and hyperplane sections. (English summary) **94m:05030**
Wan, Zhe Xian Construction of Cartesian authentication codes from unitary geometry. (English summary) **94a:94006**
Wilbrink, H. A. *see* **Blokhuis, Aart; et al., 94f:51026**

51E21 Blocking sets, ovals, k-arcs

Beutelspacher, Albrecht Geometry from B. Segre's point of view. Variations on a classical theme. **94f:51015**
Biliotti, M. (*with* Korchmáros, Gábor) Some new results on collineation groups preserving an oval of a finite projective plane. **94c:51023**
Blokhuis, Aart (*with* Metsch, Klaus) Large minimal blocking sets, strong representative systems, and partial unitals. (English summary) **94k:51011**
Cera, N. (*with* Di Biase, G.; Eugeni, F.) Reduced blocking sets in affine planes of order five. (English summary) **94c:51024**
Di Biase, G. *see* **Cera, N.; et al., 94c:51024**
Eugeni, F. *see* **Cera, N.; et al., 94c:51024**
Glynn, David G. Every oval of PG$(2, q)$, q even, is the product of its external lines. (English summary) **94i:51010**
Gordon, C. E. Orbits of arcs in projective spaces. (English summary) **94k:51012**
Gronchi, Paolo Blocking sets and the packing problem. (Italian. English summary) **94f:51016**
Hahn, Erika Characterizing linear spaces by blocking sets. (English summary) **94a:51017**
Innamorati, S. (*with* Maturo, A.) On blocking sets of smallest cardinality in the projective plane of order seven. (English summary) **94f:51017**
Korchmáros, Gábor Group theory methods in the study of ovals of finite projective planes. (Italian. English and Italian summaries) **94h:51020**
— *see also* **Biliotti, M., 94c:51023**
Maturo, A. *see* **Innamorati, S., 94f:51017**
Metsch, Klaus *see* **Blokhuis, Aart, 94k:51011**
Pellegrino, G. On complete arcs in the plane PG$(2, q)$, with q odd, containing $(q + 3)/2$ points of a conic. (Italian. English and Italian summaries) **94b:51015**
— Complete arcs, containing $(q + 1)/2$ points of a conic, in Galois planes of odd order. (Italian. English summary) **94j:51014**
Stangarone, R. (*with* Terrusi, A.) Some results on complete q-arcs of a projective plane π_q with q even, $q \geq 16$. (Italian. Italian summary) **94f:51018**
— (*with* Terrusi, A.) Collineation groups that leave invariant a complete q-arc of a projective plane of even order $q > 16$ with a point of index $q - 4$. (Italian. English summary) **94d:51012**
Storme, Leo Completeness of normal rational curves. (English summary) **94g:51014**
— (*with* Szőnyi, Tamás) Note on a problem of Kaneta concerning arcs in PG$(3, q)$. (English summary) **94h:51021**
— (*with* Thas, J. A.) M.D.S. codes and arcs in PG(n, q) with q even: an improvement of the bounds of Bruen, Thas, and Blokhuis. (English summary) **94a:51018**
Szőnyi, Tamás Arcs in cubic curves and 3-independent subsets of abelian groups. **94f:51019**
— k-sets in PG$(2, q)$ having a large set of internal nuclei. **94f:51020**
— *see also* **Storme, Leo, 94h:51021**
Terrusi, A. *see* **Stangarone, R., 94d:51012** *and* **94f:51018**
Thas, J. A. *see* **Storme, Leo, 94a:51018**
Wettl, Ferenc Remarks on closed arcs. (English summary) **94e:51015**
— Nuclei in finite non-Desarguesian projective planes. (English summary) **94m:51011**

Items with secondary classifications in 51E21

Beutelspacher, Albrecht (*with* Wettl, Ferenc) On 2-level secret sharing. (English summary) **94d:94007**
Blokhuis, Aart Polynomials in finite geometries and combinatorics. (English summary) **94h:51018**
— (*with* Szőnyi, Tamás) Sets with a large number of nuclei on a conic. (English summary) **94a:51016**

De Resmini, Marialuisa J. On the semifield plane of order 16 with kern GF(4). (English summary) **94e:51014**
Ebert, Gary Lee Some results on two-dimensional translation planes. **94e:51016**
Glynn, David G. A geometrical representation theory for orthogonal arrays. (English summary) **94m:05039**
Rajola, Sandro Flags in affine planes and maximal spreads in a nonsingular quadric of PG(4, q). (English summary) **94m:51013**
Steinke, Günter F. A remark on Benz planes of order 9. (English summary) **94g:51019**
Szőnyi, Tamás *see* **Blokhuis, Aart, 94a:51016**
Wettl, Ferenc *see* **Beutelspacher, Albrecht, 94d:94007**

51E22 Linear codes and caps in Galois spaces [see also 94B05]

Beth, Thomas The GF(p)-dimension of the codes generated by the classical point-line geometries over GF(p). (English summary) **94i:51011**
Bruen, A. A. Planes, design and Galois geometries. **94f:51021**
Faina, Giorgio The maximum size of a (Ω, P, Q)-cap in PG(3, 5). (English summary) **94i:51012**
Hamada, Noboru (*with* Helleseth, Tor; Ytrehus, Øyvind) Characterization of $\{2(q+1)+2, 2; t, q\}$-minihypers in PG(t, q) ($t \geq 3$, $q \in \{3, 4\}$). (English summary) **94b:51016**
Helleseth, Tor *see* **Hamada, Noboru; et al., 94b:51016**
Philips, A. O. (k, n, f) caps of type (m, n) in PG(t, q). **94h:51022**
Skorobogatov, A. N. Linear codes, strata of Grassmannians, and the problems of Segre. **94a:51019**
Storme, Leo (*with* Szőnyi, Tamás) Caps in PG(n, q), q even, $n \geq 3$. (English summary) **94a:51020**
Szőnyi, Tamás *see* **Storme, Leo, 94a:51020**
Ytrehus, Øyvind *see* **Hamada, Noboru; et al., 94b:51016**

Items with secondary classifications in 51E22

Berger, Thierry (*with* Charpin, Pascale) The automorphism group of generalized Reed-Muller codes. (English summary) **94g:94037**
Carlet, Claude The automorphism groups of the Delsarte-Goethals codes. (English summary) **94h:94019**
Chakravarti, I. M. Geometric construction of some families of two-class and three-class association schemes and codes from nondegenerate and degenerate Hermitian varieties. (English summary) **94b:51013**
Charpin, Pascale *see* **Berger, Thierry, 94g:94037**
Clay, James R. (*with* Kiechle, Hubert) Linear codes from planar nearrings and Möbius planes. (English summary) **94k:51006**
Dougherty, Steven Nets and their codes. (English summary) **94e:51012**
Dür, Arne On the covering radius of Reed-Solomon codes. (English summary) **94m:94029**
Gronchi, Paolo Blocking sets and the packing problem. (Italian. English summary) **94f:51016**
Hamada, Noboru (*with* Helleseth, Tor; Ytrehus, Øyvind) There are exactly two nonequivalent [20, 5, 12; 3]-codes. (English summary) **94e:94017**
— (*with* Helleseth, Tor; Ytrehus, Øyvind) The nonexistence of [51, 5, 33; 3]-codes. (English summary) **94e:94018**
— A characterization of some $[n, k, d; q]$-codes meeting the Griesmer bound using a minihyper in a finite projective geometry. (English summary) **94j:94030**
Helleseth, Tor *see* **Hamada, Noboru; et al., 94e:94017** *and* **94e:94018**
Kiechle, Hubert *see* **Clay, James R., 94k:51006**
Storme, Leo (*with* Thas, J. A.) M.D.S. codes and arcs in PG(n, q) with q even: an improvement of the bounds of Bruen, Thas, and Blokhuis. (English summary) **94a:51018**
Tamari, Fumikazu A construction of some $[n, k, d; q]$-codes meeting the Griesmer bound. (English summary) **94j:94034**
Thas, J. A. *see* **Storme, Leo, 94a:51018**
Wan, Zhe Xian Construction of Cartesian authentication codes from unitary geometry. (English summary) **94a:94006**
Ytrehus, Øyvind *see* **Hamada, Noboru; et al., 94e:94017** *and* **94e:94018**

51E23 Spreads and packing problems

Baker, R. D. (*with* Ebert, Gary Lee; Korchmáros, Gábor; Szőnyi, Tamás) Orthogonally divergent spreads of Hermitian curves. (English summary) **94k:51013**
Cameron, Peter J. Ovoids in infinite incidence structures. **94m:51012**
Ebert, Gary Lee Some nonreplaceable nests. (English summary) **94f:51022**
— Some results on two-dimensional translation planes. **94e:51016**
— *see also* **Baker, R. D.; et al., 94k:51013**
Joshi, Vinod *see* **Narayana Rao, M. L.; et al., 94h:51023**
Korchmáros, Gábor *see* **Baker, R. D.; et al., 94k:51013**
Kuppuswamy Rao, K. *see* **Narayana Rao, M. L.; et al., 94h:51023**
Narayana Rao, M. L. (*with* Kuppuswamy Rao, K.; Joshi, Vinod) A translation plane of order 7^2 with a very small translation complement. (English summary) **94h:51023**
O'Keefe, Christine M. (*with* Rahilly, Alan) Spreads and group divisible designs. (English summary) **94g:51015**
Rahilly, Alan *see* **O'Keefe, Christine M., 94g:51015**
Rajola, Sandro Flags in affine planes and maximal spreads in a nonsingular quadric of PG(4, q). (English summary) **94m:51013**
Riesinger, Rolf Faserungen, die aus Reguli mit einem gemeinsamen Geradenpaar zusammengesetzt sind. (English summary) [Spreads which are composed of reguli that have two lines in common] **94f:51023**
Szőnyi, Tamás *see* **Baker, R. D.; et al., 94k:51013**

Items with secondary classifications in 51E23

Abatangelo, L. Maria On the collineation groups of a β-derived spread. (Italian. English summary) **94c:51011**
Sane, Sharad S. (*with* Shrikhande, Mohan S.) Some characterizations of quasi-symmetric designs with a spread. (English summary) **94a:51011**
Shrikhande, Mohan S. *see* **Sane, Sharad S., 94a:51011**

51E24 Buildings and the geometry of diagrams

Brown, Kenneth S. Five lectures on buildings. **94b:51017**
Buekenhout, F. (*with* King, O. H.) Geometries with diagram . (English summary) **94m:51014**
Cameron, Peter J. Finiteness questions for geometries. (English summary) **94b:51018**
Cuypers, Hans (*with* Meixner, Thomas) Some extensions and embeddings of near polygons. (English summary) **94i:51013**
Dehon, Michel A geometry of rank 5 associated with $PGO_5(3)$. (English summary) **94k:51014**
Del Fra, Alberto (*with* Ghinelli-Smit, Dina; Pasini, Antonio) Locally partial geometries with different types of residues. (English summary) **94d:51013**
— (*with* Ghinelli-Smit, Dina; Pasini, Antonio) Affine attenuated spaces. (English summary) **94f:51024**
Ghinelli-Smit, Dina Flag-transitive $L.C_2$ geometries. (English summary) **94m:51015**
— *see also* **Del Fra, Alberto; et al., 94d:51013** *and* **94f:51024**
Grams, Gerhard (*with* Meixner, Thomas) Some results about flag transitive diagram geometries using coset enumeration. **94j:51015**
Ivanov, Aleksandr Anatol'evich The minimal parabolic geometry of the Conway group Co_1 is simply connected. (English summary) **94d:51014**
— (*with* Shpektorov, S. V.) An infinite family of simply connected flag-transitive tilde geometries. (English summary) **94d:51015**
King, O. H. *see* **Buekenhout, F., 94m:51014**
Meixner, Thomas A computer-free proof of a theorem of Weiss and Yoshiara. **94h:51024**
— *see also* **Cuypers, Hans, 94i:51013** *and* **Grams, Gerhard, 94j:51015**
Pasechnik, D. V. New examples of finite $\tilde{C}_2$-geometries. (English summary) **94c:51025**
Pasini, Antonio Groups for geometries in given diagrams. II. On a characterization of the group Aut(HS). **94b:51019a**
— (*with* Yoshiara, Satoshi) Flag-transitive Buekenhout geometries. **94a:51021**
— A classification of a class of Buekenhout geometries exploiting amalgams and simple connectedness. Groups for geometries in given diagrams. III. (Italian summary) **94b:51019b**
— Flag-transitive C_3-geometries. (English summary) **94h:51025**
— (*with* Tsaranov, S. V.) Flag-transitive geometries between A_3 and $\tilde{A}_2$. **94k:51015**
— *see also* **Del Fra, Alberto; et al., 94d:51013** *and* **94f:51024**
Pica, G. Geometries of type C_4 and C_5 with thick lines. (Italian. English summary) **94g:51016**
Rowley, Peter (*with* Walker, Louise) A note on the M_{23}- and Fi_{23}-minimal parabolic geometries. (English summary) **94m:51016**
Shpektorov, S. V. *see* **Ivanov, Aleksandr Anatol'evich, 94d:51015**
Soicher, Leonard H. On simplicial complexes related to the Suzuki sequence graphs. **94b:51020**
Tsaranov, S. V. *see* **Pasini, Antonio, 94k:51015**
Walker, Louise *see* **Rowley, Peter, 94m:51016**
Yoshiara, Satoshi *see* **Pasini, Antonio, 94a:51021**

Items with secondary classifications in 51E24

Bennett, Curtis D. Affine Λ-buildings. I. **94m:20068**
Cohen, Arjeh M. Coxeter groups and three related topics. (English summary) **94b:20044**
Fisher, Tony J. Weight operators and group geometries. (English summary) **94h:20038**
Hughes, Daniel R. Partial geometries of rank n. **94b:51011**
Ivanov, Aleksandr Anatol'evich A geometric characterization of the Monster. (English summary) **94c:20033**
— (*with* Shpektorov, S. V.) The last flag-transitive P-geometry. (English summary) **94m:20045**
Lee, Ronnie (*with* Weintraub, Steven H.) The "coadjoint" representation of $PSp_4(\mathbf{Z}/2)$. **94e:11048**
Meier, John Endomorphisms of discrete groups acting chamber transitively on affine buildings. (English summary) **94i:20048**
Peikre, L. R. An automorphism of the geometry of the group $B_2(2^n)$ as a polynomial mapping. (Russian. Russian and Ukrainian summaries) **94f:20092**
Shpektorov, S. V. *see* **Ivanov, Aleksandr Anatol'evich, 94m:20045**
Taylor, Donald E. ★ The geometry of the classical groups. **94d:20028**
Timmesfeld, F. G. Groups generated by k-root subgroups—a survey. **94f:20060**
Tits, Jacques Twin buildings and groups of Kac-Moody type. **94d:20030**
Weintraub, Steven H. *see* **Lee, Ronnie, 94e:11048**

51E25 Other finite nonlinear geometries

Bagchi, Bhaskar A geometric characterisation of Miquelian inversive planes of even order. (English summary) **94f:51025**
— (*with* Narasimha Sastry, N. S.) Two characterizations of even order Miquelian inversive planes. (English summary) **94m:51017**
Biondi, P. $\{1, 2, 3\}$-inversive planes which are embeddable into an inversive plane. (English summary) **94m:51018**
Bonisoli, Arrigo Point-primitive inversive planes of odd order. **94g:51017**
Faina, Giorgio Plane partitions and sections of nonsingular quadrics in PG(3, q). (Italian. English and Italian summaries) **94b:51021**
Kaya, R. (*with* Olgun, Ş.) Construction of some hyperbolic planes from finite projective planes using Baer subplanes. (English summary) **94g:51018**
van Lint, Jacobus H. Möbius planes. (Dutch) **94j:51016**
Narasimha Sastry, N. S. *see* **Bagchi, Bhaskar, 94m:51017**
Olgun, Ş. *see* **Kaya, R., 94g:51018**
Penttila, Tim One-point extensions of finite inversive planes. (English summary) **94k:51016**
Quattrocchi, P. (*with* Rinaldi, Gloria) Finite tangent-circle structures. (English summary) **94e:51017**
Rinaldi, Gloria *see* **Quattrocchi, P., 94e:51017**
Steinke, Günter F. A remark on Benz planes of order 9. (English summary) **94g:51019**
— Elation Laguerre planes of order p^2 that admit an automorphism group of order p^2 in the elation complement. (English summary) **94h:51026**

Items with secondary classifications in 51E25

De Smet, Veerle (*with* Van Maldeghem, Hendrik) The finite Moufang hexagons coordinatized. (English summary) **94m:51006**
Kroll, H.-J. Finite halfordered circle structures. **94i:51002**
Van Maldeghem, Hendrik *see* **De Smet, Veerle, 94m:51006**

51E26 Other finite linear geometries

Batten, Lynn Margaret (*with* Beutelspacher, Albrecht) ★ The theory of finite linear spaces. (English summary) **94m:51019**
— The nonexistence of finite linear spaces with $v = n^2$ points and $b = n^2 + n + 2$ lines. (English summary) **94g:51020**
— A characterization of finite linear spaces on v points, $n^2 \le v < (n+1)^2$, and $b = n^2 + n + 3$ lines, $n \ge 10$. (English summary) **94g:51021**
Beutelspacher, Albrecht *see* **Batten, Lynn Margaret, 94m:51019**
Blokhuis, Aart (*with* Schmitt, R. J. M.; Wilbrink, H. A.) On the number of lines in a linear space on $p^2 + p + 1$ points. (English summary) **94f:51026**
Chen, Dong Sheng (*with* Wan, Zhe Xian) An arrangement in orthogonal geometry over finite field of char = 2. (English summary) **94g:51022**
De Vito, P. (*with* Lo Re, P. M.) On a class of linear spaces. **94f:51027**
Kantor, William M. 2-transitive and flag-transitive designs. **94e:51018**
Lo Re, P. M. (*with* Olanda, D.) {0, 2, 4}-semiaffine planes. (English summary) **94e:51019**
— *see also* **De Vito, P., 94f:51027**
Melone, N. A structure theorem for finite linear spaces. **94f:51028**
Olanda, D. *see* **Lo Re, P. M., 94e:51019**
Schmitt, R. J. M. *see* **Blokhuis, Aart; et al., 94f:51026**
Wan, Zhe Xian *see* **Chen, Dong Sheng, 94g:51022**
Wilbrink, H. A. *see* **Blokhuis, Aart; et al., 94f:51026**

Items with secondary classifications in 51E26

Bonin, Joseph E. Automorphism groups of higher-weight Dowling geometries. (English summary) **94k:51005**
Camina, Alan R. (*with* Praeger, Cheryl E.) Line-transitive automorphism groups of linear spaces. **94f:20005**
Hahn, Erika Characterizing linear spaces by blocking sets. (English summary) **94a:51017**
Huo, Yuan Ji Lattices generated by subspaces of the same dimension and rank in orthogonal geometry over finite fields of odd characteristic. **94i:20084**
Metsch, Klaus Linear spaces with few lines. **94b:05037**
Praeger, Cheryl E. *see* **Camina, Alan R., 94f:20005**
Zieschang, P.-H. A theorem of O'Nan for finite linear spaces. **94i:20004**

51E30 Other finite incidence structures [see also 05B30]

Bonisoli, Arrigo (*with* Korchmáros, Gábor) A property of sharply 3-transitive finite permutation sets. (English summary) **94a:51022**
Chakravarti, I. M. A three-class association scheme on the flags of a finite projective plane and a (PBIB) design defined by the incidence of the flags and the Baer subplanes in PG$(2, q^2)$. (English summary) **94h:51027**
Edwards, S. R. *see* **Killgrove, R. B.; et al., 94m:51020**
Fiori, C. Half-planes and permutation sets. (English summary) **94f:51029**
Hammad, A. *see* **Killgrove, R. B.; et al., 94m:51020**
Killgrove, R. B. (*with* Sternfeld, R. W.; Edwards, S. R.; Tamez, R.; Hammad, A.) Planes of order 11 and other topics. **94m:51020**
Korchmáros, Gábor *see* **Bonisoli, Arrigo, 94a:51022**
Sternfeld, R. W. *see* **Killgrove, R. B.; et al., 94m:51020**
Tamez, R. *see* **Killgrove, R. B.; et al., 94m:51020**
Wang, Xiu Yu *see* **You, Hong, 94m:51021**
You, Hong (*with* Wang, Xiu Yu) Using one-dimensional nonisotropic subspaces in pseudosymplectic geometry over finite fields of characteristic 2 to construct a class of PBIB designs. (Chinese. English summary) **94m:51021**

Items with secondary classifications in 51E30

Peikre, L. R. An automorphism of the geometry of the group $B_2(2^n)$ as a polynomial mapping. (Russian. Russian and Ukrainian summaries) **94f:20092**
Shaw, Ronald Finite geometries and Clifford algebras. III. (English summary) **94h:15014**
— Finite geometry and the table of real Clifford algebras. (English summary) **94m:15027**

51Fxx Metric geometry

51F05 Absolute planes

Items with secondary classifications in 51F05

Karzel, Helmut (*with* Pianta, Silvia; Stanik, Rotraut) Generalized Euclidean and elliptic geometries, their connections and automorphism groups. (English summary) **94h:51028**
Pianta, Silvia *see* **Karzel, Helmut; et al., 94h:51028**
Stanik, Rotraut *see* **Karzel, Helmut; et al., 94h:51028**

51F10 Absolute spaces

Grochowska-Prażmowska, Małgorzata A proof of Pasch's axiom in the absolute theory of oriented parallelity. (English summary) **94d:51016**

51F15 Reflection groups, reflection geometries [see also 20H10, 20H15; for Coxeter groups, see 20F55]

Girstmair, Kurt The 17 ornament groups. (English summary) **94m:51022**
Holm, Per Topology in a crystal. (Norwegian. English summary) **94e:51020**
Knüppel, Frieder Reflection groups—on pre-Hjelmslev groups and related topics. (English summary) **94a:51023**
Krivoruchko, A. I. Groups generated by discrete sets of reflections. (Russian. Russian summary) **94d:51017**
Plaumann, Peter Lie and algebraic Johnsen groups. (English summary) **94j:51017**

Items with secondary classifications in 51F15

Edmundson, J. R. The arrangement of point charges with tetrahedral and octahedral symmetry on the surface of a sphere with minimum Coulombic potential energy. (English summary) **94h:82059**
Ellers, Erich W. (*with* Malzan, Jerry) The length problem for the special unitary group generated by positive transvections. (English and Arabic summaries) **94g:20065**
Fournelle, Thomas A. Symmetries of the cube and outer automorphisms of S_6. **94a:20011**
Götzky, K. Martin Unitary geometry. (English summary) **94c:51029**
Iversen, Birger ★ Lectures on crystallographic groups. **94h:20055**
Jablan, Slavik Vlado Infinite classes of simple and multiple antisymmetry four-dimensional point groups. (English summary) **94f:20094**
Kopský, Vojtěch Translation normalizers of Euclidean groups. I. Elementary theory. (English summary) **94j:20049**
— Translation normalizers of Euclidean groups. II. Systematic calculation. (English summary) **94j:20050**
Malzan, Jerry *see* **Ellers, Erich W., 94g:20065**

51F20 Congruence and orthogonality [see also 20H05]

van Douwen, Eric K. Indivisibility of balls in Euclidean n-space. (English summary) **94g:51023**
Karzel, Helmut (*with* Pianta, Silvia; Stanik, Rotraut) Generalized Euclidean and elliptic geometries, their connections and automorphism groups. (English summary) **94h:51028**
Kusak, Eugeniusz A geometric construction of a norm function in metric vector spaces. **94c:51026**
Lettrich, Jaroslav The orthogonality in affine parallel structure. (English summary) **94c:51027**
Muzalewski, Michał (*with* Prażmowski, Krzysztof) Axiomatic investigations on symplectic geometry. **94g:51024**
Pianta, Silvia *see* **Karzel, Helmut; et al., 94h:51028**
Prażmowski, Krzysztof On some special classes of homogeneous metric affine planes. **94d:51018**
— On some strange orthogonality relations. **94j:51018**
— *see also* **Muzalewski, Michał, 94g:51024**
Stanik, Rotraut *see* **Karzel, Helmut; et al., 94h:51028**

51F25 Orthogonal and unitary groups [see also 20H05]

Ellers, Erich W. Classical groups. (English summary) **94c:51028**
Götzky, K. Martin Unitary geometry. (English summary) **94c:51029**
Knüppel, Frieder Products of simple isometries of given conjugacy types. (English summary) **94g:51025**

Items with secondary classifications in 51F25

Wan, Zhe Xian Further studies on singular symplectic, unitary, and orthogonal geometries over finite fields. (English summary) **94j:51013**

51F99 None of the above, but in this section

Klotzek, Benno Diskontinuierliche Transformationsgruppen verschiedenen Grades in verschiedenen Geometrien. [Discontinuous transformation groups of different degree in various geometries] **94j:51019**
Knüppel, Frieder Factorization into k-dimensional linear bijections. (English summary) **94j:51020**
Laugwitz, Detlef Regular hexagons in normed spaces and a theorem of Walter Benz. (English summary) **94c:51030**
Spena, F. Russo A note on quaternion algebra and finite rotations. (English summary) **94g:51026**

Items with secondary classifications in 51F99

Jin, Ning Symmetric groups and attractors. (English and Chinese summaries) **94f:58087**
Tecklenburg, Helga ★ Stufen der Anordnung in Geometrie und Algebra. (German) [Levels of ordering in geometry and algebra] **94c:51031**
Zheludev, I. S. Antisymmetry, magnetic symmetry, complete symmetry. (Russian) **94f:82072**

51G05 Ordered geometries (ordered incidence structures, etc.)

Tecklenburg, Helga ★ Stufen der Anordnung in Geometrie und Algebra. (German) [Levels of ordering in geometry and algebra] **94c:51031**

Items with secondary classifications in 51G05

Kroll, H.-J. Finite halfordered circle structures. **94i:51002**

51Hxx Topological geometry

51H10 Topological linear incidence structures

Eisele, Eberhard Topologische Divisionalgebren ohne zugehörige topologische affine Ebene. (English summary) [Topological division algebras without corresponding topological affine plane] **94j:51021**

— Konstruktion topologischer affiner Ebenen mit nichtstetigem Parallelismus durch Knicken von Geraden. (English summary) [Construction of topological affine planes with noncontinuous parallelism by bending of lines] **94f:51030**
— A class of topological affine translation planes having no topological projective extension. **94c:51032**
Powers, Robert C. (*with* Riedel, Thomas; Sahoo, P. K.) Some models of geometries and a functional equation. **94i:51014**
Riedel, Thomas *see* **Powers, Robert C.; et al., 94i:51014**
Riesinger, Rolf Faserungen, die aus Reguli mit gemeinsamer Berührprojektivität längs einer gemeinsamen Erzeugenden zusammengesetzt sind. (English summary) [Spreads that are composed of reguli with common tangent projectivity along a common generator] **94k:51017**
Sahoo, P. K. *see* **Powers, Robert C.; et al., 94i:51014**
Schroth, Andreas E. Topological antiregular quadrangles. (English summary) **94m:51023**
Stroppel, Markus Solvable groups of automorphisms of stable planes. **94c:51033**
— Endomorphisms of stable planes. (English summary) **94c:51034**
— Embedding a nonembeddable stable plane. (English summary) **94c:51035**
— A categorical glimpse at the reconstruction of geometries. (English summary) **94c:51036**
— Quasi-perspectivities in stable planes. (English summary) **94h:51029**
— Quaternion Hermitian planes. (English summary) **94h:51030**

Items with secondary classifications in 51H10

Bödi, Richard Automorphism groups of locally compact connected double loops are locally compact. **94f:22003**

51H15 Topological nonlinear incidence structures

Schroth, Andreas E. Generalized quadrangles constructed from topological Laguerre planes. (English summary) **94f:51031**
Steinke, Günter F. On the continuity of the geometric operations in Minkowski planes with parallel classes S^2. **94h:51031**

Items with secondary classifications in 51H15

Schroth, Andreas E. Topological antiregular quadrangles. (English summary) **94m:51023**

51H20 Topological geometries on manifolds [see also 57-XX]

Items with secondary classifications in 51H20

Costa, Antonio F. Regular coloured graphs and 3-manifolds. **94b:57005**
Ivanov, A. O. (*with* Ptitsyna, I. V.; Tuzhilin, Aleksei Avgustinovich) Classification of closed minimal nets on two-dimensional flat tori. (Russian. Russian summary) **94h:05027**
Ptitsyna, I. V. *see* **Ivanov, A. O.; et al., 94h:05027**
Tuzhilin, Aleksei Avgustinovich *see* **Ivanov, A. O.; et al., 94h:05027**

51H25 Geometries with differentiable structure [see also 53Cxx, 53C70]

Items with secondary classifications in 51H25

Bödi, Richard Automorphism groups of differentiable double loops. (English summary) **94j:22003**

51Jxx Incidence groups

51J05 General theory

Marchi, Mario Incidence loops and their geometry. **94c:51037**

51J10 Projective incidence groups

Items with secondary classifications in 51J10

Ho, Chat Yin Projective planes with a regular collineation group and a question about powers of a prime. **94d:51010**

51J15 Kinematic spaces

Hotje, H. Finite kinematic groups. **94e:51021**
Pianta, Silvia (*with* Zizioli, E.) Split extensions of kinematic spaces and their automorphisms. **94h:51032**
Zizioli, E. *see* **Pianta, Silvia, 94h:51032**

Items with secondary classifications in 51J15

Marchi, Mario Incidence loops and their geometry. **94c:51037**

51J20 Representation by near-fields and near-algebras [see also 12K05, 16Y30]

Items with secondary classifications in 51J20

Cordero, M. (*with* Figueroa, Raúl F.) On some new classes of semifield planes. **94h:51017**
Figueroa, Raúl F. *see* **Cordero, M., 94h:51017**
Kiechle, Hubert g-Quasikörper. (English summary) [g-quasifields] **94e:12008**

51Kxx Distance geometry

51K05 General theory

Dress, Andreas W. M. (*with* Havel, Timothy F.) Distance geometry and geometric algebra. (English summary) **94j:51022**
Falkner, Neil A characterization of inner product spaces. **94a:51024**
Havel, Timothy F. *see* **Dress, Andreas W. M., 94j:51022**
Konik, Tadeusz On the tangency of sets in generalized metric spaces for certain functions of the class F^*_ρ. (English and Serbo-Croatian summaries) **94e:51022**
— On the tangency of sets. **94h:51033**

Items with secondary classifications in 51K05

Deza, Michel (*with* Grishukhin, V. P.; Laurent, Monique) Extreme hypermetrics and L-polytopes. (English summary) **94f:52015**
Grishukhin, V. P. *see* **Deza, Michel; et al., 94f:52015**
Laurent, Monique *see* **Deza, Michel; et al., 94f:52015**

51K10 Synthetic differential geometry

Konik, Tadeusz On the reflexivity symmetry and transitivity of the tangency relation of sets of the class $A^*_{F,K}$ in generalized metric spaces. **94k:51018**

Items with secondary classifications in 51K10

Berestovskiĭ, V. N. Foundations of the geometry of homogeneous manifolds with an intrinsic metric. (Russian) **94f:53090**

51K99 None of the above, but in this section

Ruch, Ernst Der Richtungsabstand. (English summary) [The direction distance] **94m:51024**
Stammler, Ludwig Einige Themen in Zusammenhang mit rasterbezogenem Approximieren. [Some topics in connection with approximation relative to a grid] **94j:51023**

Items with secondary classifications in 51K99

Kamiyama, Yasuhiko An elementary proof of a theorem of T. F. Havel. **94a:52044**

51Lxx Geometric order structures [see also 53C75]

51L15 n-vertex theorems via direct methods

Cairns, Grant (*with* McIntyre, Margaret; Özdemir, Mehmet) A six-vertex theorem for bounding normal planar curves. (English summary) **94a:51025**
McIntyre, Margaret *see* **Cairns, Grant; et al., 94a:51025**
Nuño Ballesteros, Juan J. (*with* Romero Fuster, M. Carmen) A four vertex theorem for strictly convex space curves. **94a:51026**
Özdemir, Mehmet *see* **Cairns, Grant; et al., 94a:51025**
Romero Fuster, M. Carmen *see* **Nuño Ballesteros, Juan J., 94a:51026**

Items with secondary classifications in 51L15

Chan, Chin Chi Four vertex theorems on Lorentzian spheres S^2_1 and H^2_1. **94k:53078**

51Mxx Real and complex geometry

Items with secondary classifications in 51Mxx

Stillwell, John ★ Geometry of surfaces. **94b:53001**

51M04 Elementary problems in Euclidean geometries

Akiyama, Jin (*with* Nakajima, Masahiko) A generalization of a problem posed in Mathematics Olympiad. **94d:51019**
Alexander, J. C. The symbolic dynamics of the sequence of pedal triangles. **94m:51025**
Beyer, W. A. (*with* Swartz, Blair) Bisectors of triangles and tetrahedra. **94g:51027**
Bezdek, Károly (*with* Ladvánszky, J.; Zoller, V.) The Euler line revisited. (German summary) **94e:51023**
De Villiers, Michael A unifying generalization of Turnbull's theorem. (English summary) **94e:51024**
Duparc, H. J. A. On the s-formula. (Dutch) **94e:51025**
Faulkner, John Curvature of the ellipse and dynamical consequences. (English summary) **94g:51028**
Fritsch, Rudolf Remarks on Bodenmiller's theorem. (English summary) **94e:51026**
Hitotumatu, Sin On a quadrisection problem of M. Gardner. (English summary) **94a:51027**
Koecher, Max (*with* Krieg, Aloys) ★ Ebene Geometrie. (German. German summary) [Plane geometry] **94e:51027**
Krieg, Aloys *see* **Koecher, Max, 94e:51027**
Ladvánszky, J. *see* **Bezdek, Károly; et al., 94e:51023**
Larsen, Mogens Esrom (*with* Singmaster, David) Equivalent relations between the angles and the sides in a triangle. (Danish. English summary) **94j:51024**
Maehara, Hiroshi Angles in lattice polygons. (English summary) **94j:51025**
Miller, Allen R. (*with* Vegh, Emanuel) Exact result for the grazing angle of specular reflection from a sphere. (English summary) **94h:51034**
Mironescu, Petru (*with* Panaitopol, Laurenţiu) The existence of a triangle with prescribed angle bisector lengths. **94j:51026**
Mitrea, Dorina (*with* Mitrea, Marius) A generalization of a theorem of Euler. **94i:51015**
Mitrea, Marius *see* **Mitrea, Dorina, 94i:51015**
Nakajima, Masahiko *see* **Akiyama, Jin, 94d:51019**
Panaitopol, Laurenţiu *see* **Mironescu, Petru, 94j:51026**
Pfiefer, Richard E. (*with* Van Hook, Cathleen) Circles, vectors, and linear algebra. (English summary) **94a:51028**
Reyes, W. "Napoleon's theorem" and its reciprocal. **94j:51027**

Rubio, Pablo Analagmatic cubics through quadratic involutive transformations. I. (English summary) **94k:51019**
Sherman, B. F. The fourth side of a triangle. **94m:51026**
Singmaster, David *see* **Larsen, Mogens Esrom, 94j:51024**
Stärk, Roland Beispiele zur Anwendung eines Computeralgebrasystems in der Geometrie. (German summary) [Examples of the application of a computer algebra system in geometry] **94j:51028**
Swartz, Blair *see* **Beyer, W. A., 94g:51027**
Thas, C. On ellipses with center the Lemoine point and generalizations. (English summary) **94b:51022**
Törőcsik, Jenő $n+1$ segments beat n. (English summary) **94m:51027**
Van Hook, Cathleen *see* **Pfiefer, Richard E., 94a:51028**
Vegh, Emanuel *see* **Miller, Allen R., 94h:51034**
Veldkamp, G. R. Classical geometry. (Dutch) **94j:51029**
Wilker, J. B. Inversions and spiral similarities. **94c:51038**
Yang, Shi Ming (*with* Zhang, Zhong Fu) Generalization of Simson's theorem. **94f:51032**
van Yzeren, Jan A simple proof of Pascal's hexagon theorem. **94j:51030**
Zhang, Zhong Fu *see* **Yang, Shi Ming, 94f:51032**
Zoller, V. *see* **Bezdek, Károly; et al., 94e:51023**

Items with secondary classifications in 51M04

Aniţa, Alice *see* **Brânzei, Dan; et al., 94b:51001**
Aniţa, Sebastian[1] *see* **Brânzei, Dan; et al., 94b:51001**
Berry, T. G. Points at rational distance from the vertices of a triangle. **94e:14071**
Bilchev, Svetoslav İ. (*with* Kontogianis, Dimitri G.) A short and elementary proof of Mushkarov-Simeonov's inequality. (English and Serbo-Croatian summaries) **94c:51044**
van der Blij, F. Geometry in the fourth dimension. (Dutch) **94f:51001**
Brânzei, Dan (*with* Aniţa, Sebastian[1]; Aniţa, Alice) ★ Competenţă şi performanţă în geometrie. Vol. 1. (Romanian. Romanian summary) [Proficiency and performance in geometry. Vol. 1] **94b:51001**
Duffin, R. J. On seeing progressions of constant cross ratio. **94e:40001**
Durran, R. M. (*with* McGregor, Malcolm T.) On Brocardian inequalities. (English summary) **94b:51024**
Feiste, Uwe *see* **Flachsmeyer, Jürgen; et al., 94b:00007**
Flachsmeyer, Jürgen (*with* Feiste, Uwe; Manteuffel, Karl) ★ Mathematik und ornamentale Kunstformen. (German) [Mathematics and ornamental art forms] **94b:00007**
Komjáth, Péter Set-theoretic constructions in Euclidean spaces. (English summary) **94g:04001**
Kontogianis, Dimitri G. *see* **Bilchev, Svetoslav İ., 94c:51044**
Kozhegel'dinov, S. Sh. A search for the basic Heron triangles. (Russian. English, Russian and Kazakh summaries) **94j:11030**
Lion, Georges An elementary way to spheric geodesics. **94d:53065**
Manteuffel, Karl *see* **Flachsmeyer, Jürgen; et al., 94b:00007**
McGregor, Malcolm T. *see* **Durran, R. M., 94b:51024**

51M05 Euclidean geometries (general) and generalizations

Beeson, Michael J. Triangles with vertices on lattice points. **94c:51039**
Bege, A. (*with* Milošević, Dragoljub M.) Some inequalities for a triangle. **94g:51029**
Kramer, Richard The undefinability of intersection from perpendicularity in the three-dimensional Euclidean geometry of lines. (English summary) **94a:51029**
Milošević, Dragoljub M. *see* **Bege, A., 94g:51029**
Pelykh, V. A. *see* **Vladimirov, Yu. S.; et al., 94g:51030**
Skorobogat'ko, V. Ya. *see* **Vladimirov, Yu. S.; et al., 94g:51030**
Vladimirov, Yu. S. (*with* Pelykh, V. A.; Skorobogat'ko, V. Ya.) Multipoint geometry and the theory of physical structures. (Russian) **94g:51030**

Items with secondary classifications in 51M05

Chou, Shang-Ching (*with* Gao, Xiao Shan; Zhang, Jing Zhong) Automated production of traditional proofs for constructive geometry theorems. (English summary) **94e:68150**
Gao, Xiao Shan *see* **Chou, Shang-Ching; et al., 94e:68150**
Iversen, Birger ★ An invitation to geometry. **94a:51001**
Muzalewski, Michał Vector products in affine geometry. **94c:51008**
Zhang, Jing Zhong *see* **Chou, Shang-Ching; et al., 94e:68150**

51M09 Elementary problems in hyperbolic and elliptic geometries

Bitay, L. Sur les angles inscrits dans un segment circulaire en géométrie hyperbolique. [On angles inscribed in a circular segment in hyperbolic geometry] **94f:51033**
Chan, Chin Chi Sectorial measure with applications to non-Euclidean trigonometries. (English summary) **94j:51031**
Strommer, J. Über die Existenz des zum Parallelwinkel gehörigen Lotes. [On the existence of the perpendicular associated with the angle of parallelism] **94f:51034**

Items with secondary classifications in 51M09

Coxeter, H. S. M. (*with* van de Craats, Jan) Philon lines in non-Euclidean planes. (English summary) **94h:51035**
van de Craats, Jan *see* **Coxeter, H. S. M., 94h:51035**
Junkins, John L. (*with* Shuster, Malcolm D.) The geometry of the Euler angles. (English summary) **94j:70004**
Leech, John Pythagorean ratios in arithmetic progression. I. Three Pythagorean ratios. **94h:11002**
Shuster, Malcolm D. *see* **Junkins, John L., 94j:70004**

51M10 Hyperbolic and elliptic geometries (general) and generalizations

Coxeter, H. S. M. (*with* van de Craats, Jan) Philon lines in non-Euclidean planes. (English summary) **94h:51035**
van de Craats, Jan *see* **Coxeter, H. S. M., 94h:51035**
Efremovich, V. A. (*with* Gorelik, E. M.) Metric fibrations of Lobachevsky-Bolyai space. **94c:51040**
Fujiwara, Yoshihisa Geometrical construction of holonomy in three-dimensional hyperbolic manifold. (English summary) **94f:51035**
Gorelik, E. M. *see* **Efremovich, V. A., 94c:51040**
Iversen, Birger ★ Hyperbolic geometry. (English summary) **94b:51023**
Kamiya, Shigeyasu On H-balls and canonical regions of loxodromic elements in complex hyperbolic space. **94f:51036**
Maracchia, Silvio ★ Dalla geometria euclidea alla geometria iperbolica: il modello di Klein. (Italian) [From Euclidean geometry to hyperbolic geometry: the Klein model] **94d:51020**
Reynolds, William F. Hyperbolic geometry on a hyperboloid. **94f:51037**
Stahl, Saul ★ The Poincaré half-plane. (English summary) **94c:51041**
Wiegand, Teodóra The mass centre and the gravity centre on the hyperbolic plane. (English summary) **94c:51042**
Zamorzaev, A. M. Construction of quasi-affine axiomatics of Lobachevskii geometry. (Russian. English, Russian and Moldavian summaries) **94c:51043**

Items with secondary classifications in 51M10

Benedetti, Riccardo (*with* Petronio, Carlo) ★ Lectures on hyperbolic geometry. (English summary) **94e:57015**
Chan, Chin Chi Sectorial measure with applications to non-Euclidean trigonometries. (English summary) **94j:51031**
Fang, Ai Nong On the invariants of Möbius groups $M(\mathbf{R}^n)$. (English summary) **94j:20047**
Goldman, William M. (*with* Parker, John R.) Dirichlet polyhedra for dihedral groups acting on complex hyperbolic space. (English summary) **94d:32044**
Iversen, Birger ★ An invitation to geometry. **94a:51001**
Nițescu, C. *see* **Udrişte, Constantin; et al., 94a:90021**
Parker, John R. Rational powers of generators of Möbius groups. **94a:20083**
— *see also* **Goldman, William M., 94d:32044**
Petronio, Carlo *see* **Benedetti, Riccardo, 94e:57015**
Şandru, Ovidiu *see* **Udrişte, Constantin; et al., 94a:90021**
Sotolongo Costa, Oscar Quantization in the Lobachevskii plane. (Spanish. English and Spanish summaries) **94m:81054**
Udrişte, Constantin (*with* Şandru, Ovidiu; Nițescu, C.) Convex programming on the Poincaré plane. **94a:90021**
Urban, Herbert Verallgemeinerung des Wendekreises der ebenen Euklidischen Kinematik auf Cayley/Klein-Zwangläufe 1. Art. (English summary) [Generalizations of the inflection circle of plane Euclidean kinematics to Cayley-Klein one-parameter motions of the first kind] **94h:53020**
Van Eeuwen, Jeff The discrete Schwarz-Pick lemma for overlapping circles. (English summary) **94j:30021**
Vinberg, È. B. Volumes of non-Euclidean polyhedra. (Russian) **94h:52012**

51M15 Geometric constructions

Dixon, Robert ★ Mathographics. (English summary) **94h:51036**
Dudley, Underwood ★ The trisectors. (English summary) **94m:51028**
Fusco, Cristiana Abud da Silva Constructions with ruler and compass. (Portuguese. English summary) **94h:51037**
Li, Hou Rong An investigation on using a ruler to draw figures when an inaccessible region is present. (Chinese. English and Chinese summaries) **94i:51016**
Paalman-de Miranda, A. B. Constructions with ruler and compasses. (Dutch) **94j:51032**
Rummler, Hansklaus Squaring the circle with holes. **94h:51038**

Items with secondary classifications in 51M15

Allaire, Richard *see* **Pallascio, Richard; et al., 94b:51004**
Artmann, Benno A proof for Theodorus' theorem by drawing diagrams. (English summary) **94k:51002**
Coxeter, H. S. M. Cubic curves related to a quadrangle. **94j:51035**
Mandan, Sahib Ram On m-dimensional orthologic Veronese configuration. (English summary) **94g:51003**
Mongeau, Pierre *see* **Pallascio, Richard; et al., 94b:51004**
Pallascio, Richard (*with* Allaire, Richard; Mongeau, Pierre) Représentation de l'espace et enseignement de la géométrie. [Spatial representation and the teaching of geometry] **94b:51004**
Sherman, B. F. The fourth side of a triangle. **94m:51026**

51M16 Inequalities and extremum problems {For convex problems see 52A40.}

Bege, A. (*with* Milošević, Dragoljub M.) Recent advances in triangle inequalities. (English summary) **94m:51029**
Bilchev, Svetoslav İ. (*with* Kontogianis, Dimitri G.) A short and elementary proof of Mushkarov-Simeonov's inequality. (English and Serbo-Croatian summaries) **94c:51044**
DeTemple, Duane W. The geometry of circumscribing polygons of minimal perimeter. (English summary) **94j:51033**
Durran, R. M. (*with* McGregor, Malcolm T.) On Brocardian inequalities. (English summary) **94b:51024**
He, Gong Bao Some results on n-simplices. (Chinese. English and Chinese summaries) **94a:51030**
Killingbergtrø, Hans Georg A weighted Fermat-Torricelli problem. (Norwegian. English summary) **94a:51031**
Kontogianis, Dimitri G. *see* **Bilchev, Svetoslav İ., 94c:51044**
Leng, Gang Song The sine theorem for dihedral angles of a higher-dimensional simplex and two inequalities for the area of a bisecting plane. (Chinese)
McGregor, Malcolm T. *see* **Durran, R. M., 94b:51024**
Milošević, Dragoljub M. *see* **Bege, A., 94m:51029**
Oleszkiewicz, Krzysztof An elementary proof of Hilbert's inequality. (English summary) **94a:51032**

Su, Hua Ming Triangular inequalities for a simplex. (Chinese. English summary) **94k:51020**
Sun, Ming Bao A strengthening of Hadamard's inequality. (Chinese. English and Chinese summaries)
Veljan, Darko On the Erdős-Mordell type inequalities for plane and space. (English and Serbo-Croatian summaries) **94c:51045**
Yang, Shi Guo A generalization of Euler's inequality in E^n. (Chinese. English and Chinese summaries) **94e:51028**

Items with secondary classifications in 51M16
Bege, A. (*with* Milošević, Dragoljub M.) Some inequalities for a triangle. **94g:51029**
Bohne, Erhart (*with* Soltan, P. S.) Outer illumination of a two-sided cone. (Russian) **94k:52005**
Claus, Heinz Jörg ★ Extremwertaufgaben. (German. German summary) [Extremal problems] **94i:49001**
Du, Ding Zhu (*with* Gao, Biao; Graham, Ronald L.; Liu, Zi Cheng; Wan, Peng Jun) Minimum Steiner trees in normed planes. (English summary) **94b:05053**
Gao, Biao *see* **Du, Ding Zhu; et al., 94b:05053**
Graham, Ronald L. *see* **Du, Ding Zhu; et al., 94b:05053**
Lavrič, Boris The thickness of a simplex. (Slovenian. English and Slovenian summaries) **94m:52011**
Liu, Zi Cheng *see* **Du, Ding Zhu; et al., 94b:05053**
Milošević, Dragoljub M. *see* **Bege, A., 94g:51029**
Rätz, Jürg On special pairs of polygons with minimal area sum. (English summary) **94f:52008**
Sendov, Blagovest On a conjecture of P. Erdős and G. Szekeres. **94h:52035**
Soltan, P. S. *see* **Bohne, Erhart, 94k:52005**
Thompson, Anthony C. Applications of various inequalities to Minkowski geometry. (English summary) **94g:52006**
Wan, Peng Jun *see* **Du, Ding Zhu; et al., 94b:05053**

51M20 Polyhedra and polytopes; regular figures, division of spaces [see also 51F15]

Bellido, Anne (*with* Dedieu, Jean-Pierre; Yakoubsohn, Jean-Claude) Combien existe-t-il d'octaèdres dont les longueurs des arêtes sont données? (English and French summaries) [How many octahedra are there with given edge-lengths?] **94c:51046**
Bennish, Joseph (*with* Gau, Yih-Nan David) When is a polygon circumscribing a regular polygon again regular? (German summary) **94a:51033**
Chepanov, S. A. Classification of the partitions of a plane into equal triangles. (Russian) **94h:51039**
Dedieu, Jean-Pierre *see* **Bellido, Anne; et al., 94c:51046**
Felix, Rene P. The 192 rotations of the four-dimensional hypercube. **94c:51047**
Gau, Yih-Nan David *see* **Bennish, Joseph, 94a:51033**
Levy, Silvio Automatic generation of hyperbolic tilings. (English summary) (*see* **94h:00013**)
Musaelyan, R. Ts. Existence of infinite polygons in a two-dimensional metric of variable negative curvature. (Russian. Armenian summary) **94g:51031**
Rigby, J. F. Compound tilings and perfect colourings. (English summary) (*see* **94h:00013**)
Yakoubsohn, Jean-Claude *see* **Bellido, Anne; et al., 94c:51046**

Items with secondary classifications in 51M20
Abramovici, Gilles Tilings of triacontahedra. (English summary) **94j:52040**
van der Blij, F. Geometry in the fourth dimension. (Dutch) **94f:51001**
van Douwen, Eric K. Indivisibility of balls in Euclidean n-space. (English summary) **94g:51023**
Har'El, Zvi Uniform solution for uniform polyhedra. (English summary) **94k:52016**
Holden, Alan ★ Shapes, space, and symmetry. (English summary) **94a:52022**
Joe, Barry *see* **Liu, Anwei, 94j:65113**
Jordan, James H. (*with* Peterson, Blake E.) Almost regular integer Fibonacci pentagons. **94a:11023**
Kajikawa, Yasushi Growing icosahedra. **94f:52014**
Liu, Anwei (*with* Joe, Barry) On the shape of tetrahedra from bisection. (English summary) **94j:65113**
Lück, Reinhard Basic ideas of Ammann bar grids. (English summary) **94i:52019**
Martini, Horst Regular simplices in spaces of constant curvature. **94e:52011**
McMullen, Peter (*with* Monson, Barry; Weiss, Asia Ivić) Regular maps constructed from linear groups. (English summary) **94j:52019**
Molnár, Emil Klassifikation der hyperbolischen Dodekaederpflasterungen von maximalen Flächentransitiven Bewegungsgruppen. (English summary) [Classification of hyperbolic dodecahedron tilings of maximal face transitive groups of motions] **94h:52046**
Monson, Barry *see* **McMullen, Peter; et al., 94j:52019**
Peterson, Blake E. *see* **Jordan, James H., 94a:11023**
Weiss, Asia Ivić *see* **McMullen, Peter; et al., 94j:52019**

51M25 Length, area and volume [see also 26B15]

Brakke, Kenneth A. The opaque cube problem. **94b:51025**
Radić, M. (*with* Sušanj, R.) An application of the determinant of a rectangular matrix in discovering some properties of the pentagon. (English and Serbo-Croatian summaries) **94m:51030**
Su, Hua Ming Inequalities for the areas of the bisection planes of a simplex dihedral angle. (Chinese. Chinese summary) **94j:51034**
Sušanj, R. *see* **Radić, M., 94m:51030**
Wernicke, Bernd Über den Flächeninhalt von Reuleaux-Dreiecken in einer Banach-Minkowskischen Ebene. [On the areal content of Reuleaux triangles in a Banach-Minkowski plane] (*see* **94f:00023**)
Zhang, Yao A conjecture on pedal simplices. (Chinese. English summary) **94g:51032**
Zykov, A. A. Rectification of sets in Euclidean spaces. (English summary) **94k:51021**

Items with secondary classifications in 51M25
Desaulniers, Guy (*with* Dubuc, Serge; Soumis, François) Comparaisons de longueurs de courbes et d'aires de surfaces. (English and French summaries) [Comparisons of lengths of curves and of areas of surfaces] **94i:52009**
Dubuc, Serge *see* **Desaulniers, Guy; et al., 94i:52009**
Gao, Qing Shi *see* **Ye, Yi Min; et al., 94k:65200**
Grünbaum, Branko (*with* Shephard, G. C.) Pick's theorem. **94j:52012**
He, Gong Bao Some results on n-simplices. (Chinese. English and Chinese summaries) **94a:51030**
Jaritz, Renate Ein Existenzsatz für Elementarinhalte. (English summary) [An existence theorem for elementary contents] **94g:52011**
Schulman, Leonard J. An equipartition of planar sets. (English summary) **94d:52003**
Shen, Wen Xuan *see* **Yang, Shi Guo, 94b:52013**
Shephard, G. C. *see* **Grünbaum, Branko, 94j:52012**
Soumis, François *see* **Desaulniers, Guy; et al., 94i:52009**
Su, Hua Ming Triangular inequalities for a simplex. (Chinese. English summary) **94k:51020**
Thompson, Anthony C. Applications of various inequalities to Minkowski geometry. (English summary) **94g:52006**
Vinberg, È. B. Volumes of non-Euclidean polyhedra. (Russian) **94h:52012**
Wongkew, Richard Volumes of tubular neighbourhoods of real algebraic varieties. (English summary) **94e:14073**
Yang, Shi Guo (*with* Shen, Wen Xuan) An investigation of the Finsler-Hadwiger inequality in E^n. (Chinese. English and Chinese summaries) **94b:52013**
Ye, Yi Min (*with* Ye, Yong Jian; Gao, Qing Shi; Zhang, Xiang) Using measuring method to find area of enclosed plane region and volume of enclosed space region. (English summary) **94k:65200**
Ye, Yong Jian *see* **Ye, Yi Min; et al., 94k:65200**
Zhang, Xiang *see* **Ye, Yi Min; et al., 94k:65200**

51M30 Line geometries and their generalizations [see also 53A25]

Ščurić-Čudovan, Vlasta Weitere Untersuchungen in der Gesamtheit (MF^2). II. Komplex (VN). (English and Serbo-Croatian summaries) [Further investigations in the totality (MF^2). II. Complex (VN)] **94e:51029**

51M35 Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations) [see also 14M15]

Rogozina, E. S. Mapping of the manifold V_3^4 on a three-dimensional plane in $\mathbf{P}^5$. (Russian) **94d:51021**

Items with secondary classifications in 51M35
Hall, Jonathan I. (*with* Shult, Ernest E.) Geometric hyperplanes of nonembeddable Grassmannians. **94b:51010**
Havlicek, Hans Baer subspaces within Segre manifolds. **94j:51004**
Shult, Ernest E. *see* **Hall, Jonathan I., 94b:51010**
Steenbrink, J. H. M. Algebraic geometry. (Dutch) **94m:14001**

51M99 None of the above, but in this section

Items with secondary classifications in 51M99
Chou, Shang-Ching (*with* Gao, Xiao Shan) Mechanical theorem proving in Riemann geometry using Wu's method. (English summary) **94k:68174**
Gao, Xiao Shan *see* **Chou, Shang-Ching, 94k:68174**
Holt, Fred Periodic reflecting paths in right triangles. (English summary) **94h:52009**
Milici, C. (*with* Rachin, N.; Neamţu, N. N.) Théorie formelle de droite. I. (Romanian summary) [Formal theory of the line. I] **94c:03012a**
— (*with* Rachin, N.) Théorie formelle de droite. II. (Romanian summary) [Formal theory of the line. II] **94c:03012b**
Neamţu, N. N. *see* **Milici, C.; et al., 94c:03012a**
Nielsen, Mark J. Triangles inscribed in simple closed curves. (English summary) **94c:52008**
Rachin, N. *see* **Milici, C.; et al., 94c:03012a** *and* **94c:03012b**

51Nxx Analytic and descriptive geometry

Items with secondary classifications in 51Nxx
Boehm, Wolfgang (*with* Prautzsch, Hartmut) ★ Geometric concepts for geometric design. (English summary) **94j:65002**
Prautzsch, Hartmut *see* **Boehm, Wolfgang, 94j:65002**
Wu, Wen Jun A survey of developments of mathematics mechanization in China. (English summary) **94g:03027**

51N05 Descriptive geometry [see also 65D17, 68U07]

Kunnert, Claudia *see* **Weiß, Gunter, 94c:51049**
Li, Fu Chang A study on the pattern of the number of solutions to precise diagrams of descriptive geometry. (Chinese. English and Chinese summaries)
Mundy, Joseph L. (*with* Zisserman, Andrew) Appendix—projective geometry for machine vision. (*see* **94d:68114**)
Wang, Zhao Long Piercing points in four-dimensional spaces. (Chinese. English and Chinese summaries) **94k:51022**
Weiß, Gunter Klassische lineare und quadratische Abbildungen. [Classical linear and quadratic mappings] **94c:51048**

— (*with* Kunnert, Claudia) Herstellung linearer Risse nach Hohenberg. (English summary) [Construction of linear projections according to Hohenberg] **94c:51049**
Zisserman, Andrew *see* **Mundy, Joseph L., (94d:68114)**

Items with secondary classifications in 51N05

Benz, Walter On a general principle in geometry that leads to functional equations. (English summary) **94k:39036**
(Janson, Svante) *see* **Peetre, Jaak**
Narzullaev, S. A. ★ Расчет *n*-мерного пространства и тела. (Russian. Russian summary) [Calculation of an *n*-dimensional space and a body] **94c:68204**
Peetre, Jaak Fast tunnels. II. (Swedish. English summary)
van Yzeren, Jan A simple proof of Pascal's hexagon theorem. **94j:51030**

51N10 Affine analytic geometry

Brandstätter, Gerhard The inverse problem of algebroprojective photogrammetry. **94h:51040**
Dolgarčv, A. I. Collineations of an LM-plane. (Russian) **94c:51050**
Szociński, Brunon On spaces with vector structure. (English summary) **94b:51026**

Items with secondary classifications in 51N10

van der Blij, F. Geometry in the fourth dimension. (Dutch) **94f:51001**

51N15 Projective analytic geometry

Coxeter, H. S. M. Cubic curves related to a quadrangle. **94j:51035**
Kuznetsova, V. A. (*with* Medvedeva, L. B.) On the projection of P^{2m+1} onto P^{m+1}. (Russian) **94e:51030**
Medvedeva, L. B. *see* **Kuznetsova, V. A., 94e:51030**
Misra, Saroj Kanta (*with* Sanyal, Arun) Quaternions and conjugate system of tetrahedra. (English summary) **94a:51034**
Mu, Yu Jie Geometric transformations in graphic displays. (Chinese. English and Chinese summaries) **94i:51017**
Rath, Wolfgang Matrix groups and kinematics in projective spaces. **94m:51031**
Sanyal, Arun *see* **Misra, Saroj Kanta, 94a:51034**

Items with secondary classifications in 51N15

Chang, Shau-Jin (*with* Crespi, Bruno; Shi, Kang Jie) Elliptical billiard systems and the full Poncelet's theorem in *n* dimensions. (English summary) **94g:58092**
— *see also* **Crespi, Bruno; et al., 94g:58093**
Crespi, Bruno (*with* Chang, Shau-Jin; Shi, Kang Jie) Elliptical billiards and hyperelliptic functions. (English summary) **94g:58093**
— *see also* **Chang, Shau-Jin; et al., 94g:58092**
Geise, Gerhard (*with* Jüttler, Bert) A geometrical approach to curvature continuous joints of rational curves. (English summary) **94b:65026**
Jüttler, Bert *see* **Geise, Gerhard, 94b:65026**
(Mundy, Joseph L.) *see* **Geometric invariance in computer vision, 94d:68114**
Prażmowski, Krzysztof On a class of semicorrelations in projective spaces. **94b:51007**
Shi, Kang Jie *see* **Chang, Shau-Jin; et al., 94g:58092** *and* **Crespi, Bruno; et al., 94g:58093**
Szociński, Brunon Some properties of the projective space. **94g:51001**
(Zisserman, Andrew) *see* **Geometric invariance in computer vision, 94d:68114**

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Geometric invariance in computer vision ★ Geometric invariance in computer vision. **94d:68114**

51N20 Euclidean analytic geometry

Al-Areefi, S. M. *see* **Elkholy, E. M., 94d:51022**
Aziz Ergin, Abdullah (*with* Hacısalihoğlu, H. Hilmi) On the 3-plane and cone and spheres. (English summary) **94d:51023**
Chen, Ai Equations for triangles. (Chinese. English and Chinese summaries) **94j:51036**
Chen, Xi Ying *see* **Xie, Yan Bo, 94h:51044**
Cheng, Yao Qing A polar definition of the conic sections and a graphical method for polar reciprocal images. (Chinese. English and Chinese summaries) **94h:51041**
Elkholy, E. M. (*with* Al-Areefi, S. M.) The 3-plane and the light cone. (English summary) **94d:51022**
Fuentes, Hugo E. On generalized cycloids. (English summary) **94j:51037**
Hacısalihoğlu, H. Hilmi *see* **Aziz Ergin, Abdullah, 94d:51023**
Kimberling, Clark Functional equations associated with triangle geometry. (English summary) **94a:51035**
Koenderink, Jan J. Fundamentals of bicentric perspective. (English summary) **94d:51024**
Lei, Yuan Xue *see* **Pi, Ming Zhi, 94b:51027**
Ogata, Takehide Some functions on the set of rigid bodies in an *n*-dimensional space (on the case in a 2-dimensional space). (English summary) **94h:51042**
Pi, Ming Zhi (*with* Lei, Yuan Xue) A direction number matrix of geometric elements in E^n. (Chinese. English and Chinese summaries) **94b:51027**
Schaal, Hermann Die Drehkegel durch vier komplanare Punkte. [Cones of revolution through four coplanar points] **94h:51043**
Wang, Jin Min *see* **Xie, You Cai**
Xie, Yan Bo (*with* Chen, Xi Ying) One-dimensional angles and multidimensional angles between two hyperplanes of arbitrary dimension in *n*-dimensional Euclidean space E^n. (Chinese. English and Chinese summaries) **94h:51044**
Xie, You Cai (*with* Wang, Jin Min) Some properties of the projections of conjugate radii of ellipses and ellipsoids. (Chinese. English and Chinese summaries)
Ying, Zhi Yi Axiomatizing trigonometry. (English and Chinese summaries) **94c:51051**

Items with secondary classifications in 51N20

Coxeter, H. S. M. Cubic curves related to a quadrangle. **94j:51035**
Dahmen, Wolfgang (*with* Thamm-Schaar, Tom-Michael) Cubicoids: modeling and visualization. (English summary) **94g:65153**
Haruki, Hiroshi (*with* Rassias, Themistocles M.) A new invariant characteristic property of Möbius transformations from the standpoint of conformal mapping. (English summary) **94m:30018**
Kabamba, Pierre T. A note on navigation accuracy. (English summary) **94m:86008**
Maybank, Stephen J. ★ Theory of reconstruction from image motion. (English summary) **94h:68228**
Rassias, Themistocles M. *see* **Haruki, Hiroshi, 94m:30018**
Rubio, Pablo Analagmatic cubics through quadratic involutive transformations. I. (English summary) **94k:51019**
Taboada, Mario A theorem in linear algebra with applications to the geometry of quadrics. (English summary) **94c:15043**
Thamm-Schaar, Tom-Michael *see* **Dahmen, Wolfgang, 94g:65153**
Yang, Shi Ming (*with* Zhang, Zhong Fu) Generalization of Simson's theorem. **94f:51032**
Zhang, Zhong Fu *see* **Yang, Shi Ming, 94f:51032**

51N25 Analytic geometry with other transformation groups

Sachs, Hans (*with* Ščurić-Čudovan, Vlasta) Zur Theorie der Flächen 2. Ordnung im Flaggenraum. (English and Serbo-Croatian summaries) [On the theory of surfaces of second order in the flag space] **94c:51052**
Ščurić-Čudovan, Vlasta *see* **Sachs, Hans, 94c:51052**
Szociński, Brunon Elementary Klein spaces. **94c:51053**

Items with secondary classifications in 51N25

Dolgarčv, A. I. Collineations of an LM-plane. (Russian) **94c:51050**
Karáné, G. S. Vollisotrope Kreisschiebzykliden des Flaggenraumes. (English summary) [Cyclides of the flag space generated by translation of a fully isotropic circle] **94d:53024**
Steenbrink, J. H. M. Geometry and groups. (Dutch) **94e:57023**

51N30 Geometry of classical groups [see also 20Gxx, 14L35]

Jiang, Yue Ping On the Clifford cross-ratio and its application. (Chinese. English and Chinese summaries) **94b:51028**
Reed, Irving S. Generalized de Moivre's theorem, quaternions, and Lorentz transformations on a Minkowski space. (English summary) **94g:51033**

Items with secondary classifications in 51N30

Wiegand, Teodóra The mass centre and the gravity centre on the hyperbolic plane. (English summary) **94c:51042**

51N35 Questions of classical algebraic geometry [see also 14Nxx]

Items with secondary classifications in 51N35

Wagner, David G. Enumeration of functions from posets to chains. (English summary) **94c:05008**

51N99 None of the above, but in this section

Items with secondary classifications in 51N99

Moons, Theo (*with* Pauwels, Eric J.; Van Gool, Luc J.; Oosterlinck, André) Rotation invariant characterization of scenes and images. **94g:92032**
Oosterlinck, André *see* **Moons, Theo; et al., 94g:92032**
Pauwels, Eric J. *see* **Moons, Theo; et al., 94g:92032**
Van Gool, Luc J. *see* **Moons, Theo; et al., 94g:92032**

51P05 Geometry and physics (should also be assigned at least one other classification number from Sections 70–86)

Geroyannis, V. S. Zatrikean pre-geometry as a tool for modelling in theoretical astrophysics. (English summary) **94b:51029**
Guts, A. K. Uniqueness of abelian affine chronogeometry. (Russian. English and Russian summaries) **94h:51045**
Karzel, Helmut (*with* Wefelscheid, Heinrich) Groups with an involutory antiautomorphism and *K*-loops; application to space-time-world and hyperbolic geometry. I. **94e:51031**
Madguerova, Andreana Stefanova A model of time with Walker's definition of instants by events. **94h:51046**
Wefelscheid, Heinrich *see* **Karzel, Helmut, 94e:51031**

Items with secondary classifications in 51P05

Chernikov, N. A. The relativistic Kepler problem in the Lobachevsky space. (English summary) **94g:83112**
Gibbons, Gary W. The Kummer configuration and the geometry of Majorana spinors. (English summary) **94m:81039**
Hucks, Joseph Hyperbolic complex structures in physics. (English summary) **94k:81101**
Sotolongo Costa, Oscar Quantization in the Lobachevskiĭ plane. (Spanish. English and Spanish summaries) **94m:81054**

52–XX Convex and discrete geometry

52–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 52–00

(Gruber, Peter M.) *see* **Handbook: Convex geometry, 94e:52001**
(Wills, Jörg M.) *see* **Handbook: Convex geometry, 94e:52001**

Items listed otherwise than by author

Handbook:
Convex geometry ★ Handbook of convex geometry. Vol. A, B. **94e:52001**

52–02 Research exposition (monographs, survey articles)

Groemer, H. Fourier series and spherical harmonics in convexity. **94j:52001**
Heil, Erhard (*with* Martini, Horst) Special convex bodies. **94h:52001**
Leichtweiß, Kurt Convexity and differential geometry. **94j:52002**
Mani-Levitska, Peter Characterizations of convex sets. **94k:52001**
Martini, Horst *see* **Heil, Erhard, 94h:52001**
Schmitt, Peter Problems in discrete and combinatorial geometry. **94h:52002**

Items with secondary classifications in 52–02

Eckhoff, Jürgen Helly, Radon, and Carathéodory type theorems. **94k:52010**
Florian, A. Extremum problems for convex discs and polyhedra. **94h:52024**
Gritzmann, Peter (*with* Wills, Jörg M.) Lattice points. **94k:52026**
Groemer, H. Stability of geometric inequalities. (English summary) **94i:52011**
Gruber, Peter M. Baire categories in convexity. **94i:52003**
Lutwak, Erwin Selected affine isoperimetric inequalities. **94h:52014**
Moser, W. (*with* Pach, János) Recent developments in combinatorial geometry. **94f:52032**
Pach, János *see* **Moser, W., 94f:52032**
Sangwine-Yager, J. R. Mixed volumes. (English summary) **94h:52013**
Schneider, Rolf ★ Convex bodies: the Brunn-Minkowski theory. (English summary) **94d:52007**
— Convex surfaces, curvature and surface area measures. **94i:52005**
Wills, Jörg M. *see* **Gritzmann, Peter, 94k:52026**

52–04 Explicit machine computation and programs (not the theory of computation or programming)

Banchoff, Thomas (*with* Cervone, Davide P.) Illustrating *Beyond the third dimension.* (English summary) (*see* **94h:00013**)
Cervone, Davide P. *see* **Banchoff, Thomas, (94h:00013)**

52–06 Proceedings, conferences, collections, etc.

(Chogoshvili, G. S.) *see* **Topological, projective and combinatorial properties of spaces, 94a:52001**
(Gruber, Peter M.) *see* **Handbook: Convex geometry, 94e:52001**
(Kumar Dang, Prem) *see* **Topological, projective and combinatorial properties of spaces, 94a:52001**
(Kuo, K. H.) *see* **Quasicrystals, 94g:52001**
(Ninomiya, T.) *see* **Quasicrystals, 94g:52001**
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Convex geometry ★ Handbook of convex geometry. Vol. A, B. **94e:52001**
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52Axx General convexity

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52A01 Axiomatic and generalized convexity

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Changat, Manoj Partition number for the geodesic convexity in a generalized triangle. (English summary) **94b:52002**
Coppel, W. A. Axioms for convexity. (English summary) **94b:52003**
Ger, J. (*with* Ger, Roman) On some aspects of Jensen-Menger convexity. (English summary) **94a:52002**
Ger, Roman *see* **Ger, J., 94a:52002**
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König, Heinz (*with* Wittstock, Gerd) Superconvex sets and σ-convex sets, and the embedding of convex and superconvex spaces. **94e:52002**
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Bandelt, Hans-Jürgen (*with* Mulder, Henry Martyn) Pseudo-median graphs are join spaces. (English summary) **94g:05030**
Charatonik, Włodzimierz J. Convex structure on the space of order arcs. (English summary) **94c:54059**
Dawson, Robert J. MacG. Simplicial homology of preconvexity spaces. (French summary) **94i:18013**
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Künzi, Hans-Peter A. *see* **Kleisli, Heinrich, 94h:46014**
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Wieczorek, Andrzej The Kakutani property and the fixed point property of topological spaces with abstract convexity. (English summary) **94b:54115**

52A05 Convex sets without dimension restrictions

Bair, J. (*with* Valein, J. L.) A classification for non-linearly bounded convex sets. **94j:52003**
Bazilevich, L. Ė. On the exotic pseudo-interior of the hyperspace of compact convex sets. (Ukrainian. Ukrainian summary) **94f:52002**
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Casini, E. *see* **Baronti, M.; et al., 94m:46020**
Fonf, V. P. On supportless convex sets in incomplete normed spaces. (English summary) **94f:46019**
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Kim, Won Kyu (*with* Lee, Kyoung Hee) Zeros for set-valued maps on convex spaces. (English summary) **94b:47067**
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Ma, Yu Mei Isometries of the unit sphere. (English summary) **94c:46021**
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Röhrl, Helmut Convexity theories. III. Classification of certain real convexity theories. (English summary) **94c:52001**
Salvatori, Maura (*with* Vignati, Marco) On the stability of multi-dimensional convexity under interpolation. (English summary) **94m:46027**
Vignati, Marco *see* **Salvatori, Maura, 94m:46027**

52A07 Convex sets in topological vector spaces [see also 46A55]

Danielyan, È. A. (*with* Movsisyan, G. S.; Tatalyan, K. R.) Generalization of the Carathéodory theorem. (Russian. Armenian summary) **94f:52003**
Fischer, Herbert The law of cancellation for hypernorm-balls in linear spaces. (English and Serbo-Croatian summaries) **94e:52003**
Hoffmann, Armin The distance to the intersection of two convex sets expressed by the distances to each of them. (English summary) **94k:52002**
Klee, Victor Sharper approximation of extreme points by far points. **94a:52003**
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Bae, Jong Sook (*with* Kim, Won Kyu; Tan, Kok-Keong) Another generalization of Ky Fan's minimax inequality and its applications. (English summary) **94g:49059**
Durier, Roland (*with* Papini, Pier Luigi) Polyhedral norms in an infinite-dimensional space. (English summary) **94k:46028**
Fazylov, V. R. *see* **Kulikov, A. N., 94c:90096**
Fonf, V. P. On supportless absorbing convex subsets in normed spaces. (English summary) **94c:46026**
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Kutzarova, Denka (*with* Lin, Pei-Kee; Papini, Pier Luigi; Yu, Xin Tai) On some properties concerning closed convex sets. (English summary) **94b:46020**
Lin, Pei-Kee *see* **Kutzarova, Denka; et al., 94b:46020**
Papini, Pier Luigi *see* **Kutzarova, Denka; et al., 94b:46020** *and* **Durier, Roland, 94k:46028**
Semčnov, P. V. Functionally paraconvex sets. (Russian. Russian summary) **94m:46029**
Tan, Kok-Keong *see* **Bae, Jong Sook; et al., 94g:49059**
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52A10 Convex sets in 2 dimensions (including convex curves) [see also 53A04]

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Kay, David C. Four-coloring the leaves of a 4-convex set. **94e:52004**
Kupitz, Yaakov S. On convex segments in a triangulation. (English summary) **94h:52003**

Lassak, Marek Approximation of convex bodies by rectangles. (English summary) **94f:52004**
Li, Wei[10] (*with* Dang, Xin Yi) Some properties of closed curves and estimation of their girth. (Chinese. English summary) **94a:52004**
Matsuura, Shigetake On nonconvex curves of constant angle. **94j:52004**
Peri, Carla (*with* Wills, Jörg M.; Zucco, Andreana) On Blaschke's extension of Bonnesen's inequality. (English summary) **94k:52003**
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Scott, Paul R. On the width of a planar convex set containing zero or one lattice points. (English summary) **94i:52001**
Wegner, Bernd Partial inflation of closed polygons in the plane. (English summary) **94i:52002**
Wills, Jörg M. *see* **Peri, Carla; et al., 94k:52003**
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Cheng, Benny N. On a problem of A. Pleijel. (English summary) **94a:52005**
Dawson, Robert J. MacG. Helly-type theorems for bodies in the plane with common supports. (English summary) **94a:52014**
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Holt, Fred Periodic reflecting paths in right triangles. (English summary) **94h:52009**
Kenderov, Petar S. (*with* Kirov, Nikolai K.) A dynamical systems approach to the polygonal approximation of plane convex compacts. (English summary) **94g:52004**
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Ogata, Takehide Some functions on the set of rigid bodies in an n-dimensional space (on the case in a 2-dimensional space). (English summary) **94h:51042**
Panzone, Pablo A. A note on the convex hull of self-similar sets. (English summary) **94j:52006**
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Rzymowski, Witold (*with* Stachura, Adam) Curves bounding maximal area. **94f:53005**
Stachura, Adam *see* **Rzymowski, Witold, 94f:53005**
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52A15 Convex sets in 3 dimensions (including convex surfaces) [see also 53A05, 53C45]

Bronshtein, E. M. One-dimensional extremal boundaries of three-dimensional compact convex sets. (Russian) **94k:52004**
Lamberg, Lars On the Minkowski problem and the lightcurve operator. **94j:52005**
Ogiue, Koichi (*with* Takeuchi, Nobuko) A sphere can be characterized as a smooth ovaloid which contains one circle through each point. (English summary) **94m:52002**
Takeuchi, Nobuko *see* **Ogiue, Koichi, 94m:52002**
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52A20 Convex sets in n dimensions (including convex hypersurfaces) [see also 53A07, 53C45]

Bohne, Erhart (*with* Soltan, P. S.) Outer illumination of a two-sided cone. (Russian) **94k:52005**
Cheng, Benny N. On a problem of A. Pleijel. (English summary) **94a:52005**
Chernykh, O. L. Construction of the convex hull of a set of points in the form of a system of linear inequalities. (Russian. Russian summary) **94c:52002**
Dekster, Boris V. Every convex n-dimensional body with a smooth belt can be illuminated by $n+1$ directions. **94m:52003**
Farran, Hani R. (*with* Robertson, Stewart A.) Ovaloids and their symmetry types. (English summary) **94a:52006**
Gardner, Richard J. (*with* Volčič, A.) Determination of convex bodies by their brightness functions. (English summary) **94m:52004**
— (*with* Volčič, A.) Convex bodies with similar projections. (English summary) **94h:52005**
Groemer, H. Stability theorems for ellipsoids and spheres. **94m:52005**
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Kahn, Jeffry N. (*with* Kalai, Gil) A counterexample to Borsuk's conjecture. (English summary) **94a:52007**
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Betke, Ulrich (*with* Henk, Martin) A generalization of Steinhagen's theorem. (English summary) **94d:52008**
Bezdek, Károly (*with* Kiss, Gy.; Mollard, Michel) An illumination problem for zonoids. (English summary) **94j:52007**
Bronshtein, E. M. One-dimensional extremal boundaries of three-dimensional compact convex sets. (Russian) **94k:52004**
Burger, Thomas (*with* Schneider, Rolf) On convex bodies close to ellipsoids. (English summary) **94c:52004**
Campiti, Michele Convergence of nets of monotone operators between cones of set-valued functions. (English and Italian summaries) **94e:54024**
Dekster, Boris V. The Borsuk conjecture holds for convex bodies with a belt of regular points. (English summary) **94a:52016**
Henk, Martin *see* **Betke, Ulrich, 94d:52008**
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Sauer, Peter On a problem by J. M. Wills. (English summary) **94k:52013**
Scarf, Herbert E. (*with* Shallcross, David F.) The Frobenius problem and maximal lattice free bodies. (English summary) **94j:11056**
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Vitale, Richard A. A class of bounds for convex bodies in Hilbert space. (English summary) **94g:52002**
Watkins, William Earl The cone of positive generalized matrix functions. (English summary) **94c:15007**

52A21 Finite-dimensional Banach spaces (including special norms, zonoids, etc.) [see also 46Bxx]

Bezdek, Károly (*with* Kiss, Gy.; Mollard, Michel) An illumination problem for zonoids. (English summary) **94j:52007**
Bollobás, Béla (*with* Leader, Imre) Generalized duals of unconditional spaces and Lozanovskiĭ's theorem. (English and French summaries) **94h:52008**
Bourgain, Jean (*with* Lindenstrauss, Joram) Approximating the ball by a Minkowski sum of segments with equal length. (English summary) **94a:52009**
de la Harpe, Pierre On Hilbert's metric for simplices. (English summary) **94i:52006**
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Herburt, Irmina Rigidity of products. (English summary) **94d:54030**
Johnson, Keith Peter *see* **Edelstein, Michael; et al., 94f:52022**
König, Hermann (*with* Tomczak-Jaegermann, Nicole) Norms of minimal projections. (English summary) **94m:46024**
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Thompson, Anthony C. *see* **Edelstein, Michael; et al., 94f:52022**

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Tzafriri, L. *see* **Gluskin, E. D.; et al., 94k:46026**

52A22 Random convex sets and integral geometry [see also 53C65, 60D05]

Buchta, Christian (*with* Reitzner, Matthias) What is the expected volume of a tetrahedron whose vertices are chosen at random from a given tetrahedron? **94k:52007**
Gel'fand, I. M. (*with* Smirnov, M. M.) Crofton densities and nonlocal differentials. (English summary) **94k:52008**
Jensen, Eva Bjørn (*with* Kiêu, K.) A new integral geometric formula of the Blaschke-Petkantschin type. (English summary) **94g:52003**
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Peri, Carla Curves and lattices of points in the Minkowski plane. (English summary) **94a:52010**
Reitzner, Matthias *see* **Buchta, Christian, 94k:52007**
Schneider, Rolf (*with* Weil, Wolfgang) ★ Integralgeometrie. (German) [Integral geometry] **94c:52003**
Smirnov, M. M. *see* **Gel'fand, I. M., 94k:52008**
Weil, Wolfgang *see* **Schneider, Rolf, 94c:52003**
Zhou, Jia Zu The sufficient condition for a convex body to enclose another in $\mathbf{R}^4$. (English summary) **94i:52007**

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Bárány, Imre (*with* Vitale, Richard A.) Random convex hulls: floating bodies and expectations. (English summary) **94m:60022**
Baryshnikov, Yuliy M. (*with* Vitale, Richard A.) Regular simplices and Gaussian samples. (English summary) **94j:60017**
Cowan, Richard (*with* Tsang, Albert K. L.) The falling-leaves mosaic and its equilibrium properties. (English summary) **94i:60013**
Duma, Andrei (*with* Stoka, Marius) Le problème de Buffon à intersections multiples pour l'ellipse dans le plan euclidien. (English summary) [The Buffon problem with multiple intersections for an ellipse in the Euclidean plane] **94m:60023**
Dwyer, Rex A. The expected number of k-faces of a Voronoĭ diagram. (English and German summaries) **94h:60017**
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Ehlers, P. F. *see* **Enns, E. G., 94i:60014**
Enns, E. G. (*with* Ehlers, P. F.) Notes on random chords in convex bodies. (English summary) **94i:60014**
García, F. *see* **Naveira, A. M., 94d:53115**
Jensen, Eva Bjørn (*with* Kiêu, K.) Unbiased stereological estimation of d-dimensional volume in $\mathbf{R}^n$ from an isotropic random slice through a fixed point. (English summary) **94i:60015**
Kiêu, K. A coarea formula for multiple geometric integrals. (English summary) **94g:49099**
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Muche, Lutz An incomplete Voronoĭ tessellation. (English summary) **94j:60018**
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Scheike, Thomas H. Anisotropic growth of Voronoĭ cells. (English summary) **94m:60027**
Small, Christopher G. A counterexample to a conjecture on random shadows. (English and French summaries) **94d:60020**
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Vitale, Richard A. Expectation inequalities from convex geometry. (English summary) **94a:60017**
— A class of bounds for convex bodies in Hilbert space. (English summary) **94g:52002**
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Zheng, Youlu Covering a sphere with N random circular caps. (English summary) **94f:60019**
Zuev, S. A. Estimates for distributions of the Voronoĭ polygon's geometric characteristics. **94e:60012**

52A27 Approximation by convex sets

Burger, Thomas (*with* Schneider, Rolf) On convex bodies close to ellipsoids. (English summary) **94c:52004**
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Florian, A. Approximation of convex discs by polygons: the perimeter deviation. (English summary) **94a:52011**
Gruber, Peter M. Asymptotic estimates for best and stepwise approximation of convex bodies. I. (English summary) **94e:52006**
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Kamenev, G. K. Efficiency of Hausdorff algorithms for polyhedral approximation of convex bodies. (Russian. Russian summary) **94d:52002**
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Pełczyński, Aleksander Remarks on John's theorem on the ellipsoid of maximal volume inscribed into a convex symmetric body in $\mathbf{R}^n$. (English summary) **94d:52011**
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52A30 Variants of convex sets (star-shaped, (m, n)-convex, etc.)

Mel'nik, V. L. $(n-1)$-convex sets. (Russian. Russian summary) **94c:52006**

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Cel, J. Determining dimension of the kernel of a cone. (English summary) **94a:52012**
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52A35 Helly-type theorems

Ambrosio, Beatriz Consequences of Helly's topological theorem. (Spanish. English summary) **94j:52009**
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Tuza, Zsolt Helly property in finite set systems. (English summary) **94b:05200**
Valtr, Pavel Unit squares intersecting all secants of a square. (English summary) **94i:52008**
Zolotarev, A. P. On the interconnection among Helly, Radon and Carathéodory numbers in lattices with a balanced skeleton. (Russian) **94j:06014**

52A37 Other problems of combinatorial convexity

Csima, J. (*with* Sawyer, E. T.) There exist $6n/13$ ordinary points. (English summary) **94a:52015**
Dekster, Boris V. The Borsuk conjecture holds for convex bodies with a belt of regular points. (English summary) **94a:52016**
Deza, Michel (*with* Laurent, Monique) The cut cone: simplicial faces and linear dependencies. (English summary) **94m:52006**
Eppstein, David Improved bounds for intersecting triangles and halving planes. (English summary) **94f:52006**
Gil, Joseph (*with* Steiger, William; Wigderson, Avi) Geometric medians. (English summary) **94c:52007**
Gravner, Janko (*with* Griffeath, David) Threshold growth dynamics. **94b:52006**
Griffeath, David *see* **Gravner, Janko, 94b:52006**
Holt, Fred Periodic reflecting paths in right triangles. (English summary) **94h:52009**
Kovalev, M. D. A problem on the cutting of subspaces. (Russian. Russian summary) **94b:52007**
Kupitz, Yaakov S. Separation of a finite set in $\mathbf{R}^d$ by spanned hyperplanes. (English summary) **94j:52010**
— Spanned k-supporting hyperplanes of finite sets in $\mathbf{R}^d$. (English summary) **94k:52011**
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Nielsen, Mark J. Triangles inscribed in simple closed curves. (English summary) **94c:52008**
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Chen, Beifang On the Euler characteristic of finite unions of convex sets. (English summary) **94d:52014**
Chow, Timothy Distances forbidden by two-colorings of Q^3 and A_n. (English summary) **94d:05053**
Dekster, Boris V. Every convex n-dimensional body with a smooth belt can be illuminated by $n+1$ directions. **94m:52003**
Fishburn, Peter C. (*with* Reeds, J. A.) Unit distances between vertices of a convex polygon. (English summary) **94b:52030**
Guibas, Leonidas J. (*with* Sharir, Micha) Combinatorics and algorithms of arrangements. **94g:52013**
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Kołodziejczyk, Krzysztof Borsuk covering and planar sets with unique completion. (English summary) **94j:52037**
Kupitz, Yaakov S. On convex segments in a triangulation. (English summary) **94h:52003**
Maurras, Jean-François The line-polytope of a finite affine plane. (English summary) **94f:51011**
Mollard, Michel *see* **Bezdek, Károly; et al., 94j:52007**
Reeds, J. A. *see* **Fishburn, Peter C., 94b:52030**
Schmitt, Peter Problems in discrete and combinatorial geometry. **94h:52002**
Sharir, Micha *see* **Guibas, Leonidas J., 94g:52013**

52A38 Length, area, volume [see also 26B15, 28A75, 49Q20]

Aomoto, Kazuhiko Hyperlogarithmic expansion and the volume of a hyperbolic simplex. **94b:52009**
Barvinok, A. I. Computing the volume, counting integral points, and exponential sums. (English summary) **94d:52005**
Betke, Ulrich (*with* Henk, Martin) Estimating sizes of a convex body by successive diameters and widths. (English summary) **94b:52010**
— (*with* Henk, Martin) Approximating the volume of convex bodies. (English summary) **94c:52009**
Cieślak, Waldemar (*with* Koshi, Shozo; Zając, Józef) On integral formulas for convex domains. **94k:52012**
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Dubuc, Serge *see* **Desaulniers, Guy; et al., 94i:52009**
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— Intersection bodies and the Busemann-Petty problem. (English summary) **94e:52008**
Groemer, H. On circumscribed cylinders of convex sets. (English summary) **94d:52006**
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Kołodziejczyk, Krzysztof *see* **Ding, Ren; et al., 94h:52011**
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Murphy, Grattan *see* **Ding, Ren; et al., 94h:52011**
Oliker, Vladimir I. Generalized convex bodies and generalized envelopes. **94a:52018**
Papadimitrakis, Michael On the Busemann-Petty problem about convex, centrally symmetric bodies in $\mathbf{R}^n$. **94a:52019**
Reay, John *see* **Ding, Ren; et al., 94h:52011**
Reisner, S. *see* **Meyer, Mathieu; et al., 94m:52009**
Sauer, Peter On a problem by J. M. Wills. (English summary) **94k:52013**
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Schnell, Uwe (*with* Wills, Jörg M.) On successive minima and intrinsic volumes. (English summary) **94k:52014**
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Gritzmann, Peter (*with* Wills, Jörg M.) Lattice points. **94k:52026**
Groemer, H. Stability of geometric inequalities. (English summary) **94i:52011**
Hann, Kathy The average number of normals through a point in a convex body and a related Euler-type identity. (English summary) **94j:52013**
Khachiyan, L. G. Complexity of polytope volume computation. (English summary) **94m:68190**
Lin, Zu Cheng *see* **Zhang, Yao, 94g:52009**
Lutwak, Erwin A minimax inequality for inscribed cones. **94d:52010**
Mao, Qi Ji On an inequality related to the splitting of a convex body by a plane. (English summary) **94h:52015**
Okuneva, V. A. A proof of Melzak's conjecture for some classes of polyhedra. (Russian) **94b:52026**
Shen, Wen Xuan *see* **Yang, Shi Guo, 94b:52013**
Shub, Michael (*with* Smale, Stephen) Complexity of Bezout's theorem. II. Volumes and probabilities. (English summary) **94m:68086**
Smale, Stephen *see* **Shub, Michael, 94m:68086**
Teodorescu, D. I. Sur le volume d'un m-parallélépipède d'un espace ponctuel préhilbertien. (Romanian summary) [On the volume of an m-parallelepiped in a pre-Hilbert point space] (*see* **94j:00024**)
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Zalgaller, V. A. A family of extremal spindle-shaped bodies. (Russian. Russian summary) **94f:52009**
Zhang, Yao (*with* Lin, Zu Cheng) Two inequalities associated with several n-dimensional simplices. (Chinese. English and Chinese summaries) **94g:52009**

52A39 Mixed volumes and related topics

Arnold, Randolf On the Aleksandrov-Fenchel inequality and the stability of the sphere. (English summary) **94g:52007**
Chakerian, G. D. (*with* Lutwak, Erwin) On the Petty-Schneider theorem. **94a:52021**
Chen, Beifang (*with* Rota, Gian-Carlo) Totally invariant set functions of polynomial type. **94m:52010**
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— *see also* **Chakerian, G. D., 94a:52021**
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Sangwine-Yager, J. R. Mixed volumes. (English summary) **94h:52013**
Schneider, Rolf ★ Convex bodies: the Brunn-Minkowski theory. (English summary) **94d:52007**
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— Fourier series and spherical harmonics in convexity. **94j:52001**
Leichtweiß, Kurt Convexity and differential geometry. **94j:52002**
Sedykh, V. D. Invariants of strictly convex manifolds. (Russian. Russian summary) **94j:57028**

52A40 Inequalities and extremum problems

Betke, Ulrich (*with* Henk, Martin) A generalization of Steinhagen's theorem. (English summary) **94d:52008**
Fuglede, Bent Lower estimate of the isoperimetric deficit of convex domains in $\mathbf{R}^n$ in terms of asymmetry. (English summary) **94d:52009**
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Hann, Kathy The average number of normals through a point in a convex body and a related Euler-type identity. (English summary) **94j:52013**
Henk, Martin *see* **Betke, Ulrich, 94d:52008**
Lavrič, Boris The thickness of a simplex. (Slovenian. English and Slovenian summaries) **94m:52011**
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Pełczyński, Aleksander Remarks on John's theorem on the ellipsoid of maximal volume inscribed into a convex symmetric body in $\mathbf{R}^n$. (English summary) **94d:52011**
Rätz, Jürg On special pairs of polygons with minimal area sum. (English summary) **94f:52008**
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— A generalization of two inequalities for tangent simplexes. (Chinese)
Zalgaller, V. A. A family of extremal spindle-shaped bodies. (Russian. Russian summary) **94f:52009**
Zhang, Yao (*with* Lin, Zu Cheng) Two inequalities associated with several n-dimensional simplices. (Chinese. English and Chinese summaries) **94g:52009**

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Ball, Keith The reverse isoperimetric problem for Gaussian measure. (English summary) **94j:60076**
Banaszczyk, Wojciech Balancing vectors and convex bodies. (English summary) **94g:52020**
Betke, Ulrich (*with* Henk, Martin) Estimating sizes of a convex body by successive diameters and widths. (English summary) **94b:52010**
— (*with* Henk, Martin) Approximating the volume of convex bodies. (English summary) **94c:52009**
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Claus, Heinz Jörg ★ Extremwertaufgaben. (German. German summary) [Extremal problems] **94i:49001**
Dang, Xin Yi *see* **Li, Wei[10], 94a:52004**

DeTemple, Duane W. The geometry of circumscribing polygons of minimal perimeter. (English summary) **94j:51033**
García Palomares, Ubaldo Parallel projected aggregation methods for solving the convex feasibility problem. (English summary) **94k:52015**
Gardner, Richard J. On the Busemann-Petty problem concerning central sections of centrally symmetric convex bodies. (English summary) **94m:52007**
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— On the stability of a Brunn-Minkowski type inequality. (English summary) **94b:52011**
— On circumscribed cylinders of convex sets. (English summary) **94d:52006**
Hárs, L. On the density of floating balls. **94e:52018**
Hayman, Walter K. A problem in Fourier series arising from an isoperimetric inequality. **94k:30055**
Henk, Martin *see* **Betke, Ulrich, 94b:52010** *and* **94c:52009**
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Peri, Carla (*with* Wills, Jörg M.; Zucco, Andreana) On Blaschke's extension of Bonnesen's inequality. (English summary) **94k:52003**
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Shub, Michael (*with* Smale, Stephen) Complexity of Bezout's theorem. II. Volumes and probabilities. (English summary) **94m:68086**
Smale, Stephen *see* **Shub, Michael, 94m:68086**
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Su, Hua Ming Triangular inequalities for a simplex. (Chinese. English summary) **94k:51020**
Talenti, Giorgio The standard isoperimetric theorem. (English summary) **94h:49065**
Thompson, Anthony C. Applications of various inequalities to Minkowski geometry. (English summary) **94g:52006**
V″ndev, Dimit″r L. A minimal volume ellipsoid around a simplex. **94a:52020**
Wegner, Gerd Relative Newton numbers. (English summary) **94c:52015**
Wills, Jörg M. *see* **Peri, Carla; et al., 94k:52003** *and* **Schnell, Uwe, 94k:52014**
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Zucco, Andreana *see* **Peri, Carla; et al., 94k:52003**

52A41 Convex functions and convex programs [see also 26B25, 90C25]

Azé, Dominique (*with* Volle, Michel) Various continuity properties of the deconvolution (or epigraphical difference). (English summary) **94e:52009**
Blaga, Lucia *see* **Kolumbán, Iosif, 94d:52012**
Cheng, Ru Jie Convexity of a class of functions expressed in terms of inner products. (Chinese. English and Chinese summaries) **94h:52016**
García Palomares, Ubaldo Parallel projected aggregation methods for solving the convex feasibility problem. (English summary) **94k:52015**
Kiselman, Christer O. Regularity classes for operations in convexity theory. (English and Esperanto summaries) **94b:52014**
Kolumbán, Iosif (*with* Blaga, Lucia) On the weakly convex sets. (Romanian summary) **94d:52012**
Przesławski, Krzysztof On a characterization of the support functions. (English summary) **94j:52015**
Volle, Michel *see* **Azé, Dominique, 94e:52009**
Wang, Liang Cheng (*with* Wu, Kai Ying) Some equivalence propositions for convex functions in linear spaces. (Chinese. English and Chinese summaries) **94f:52010**
Wu, Kai Ying *see* **Wang, Liang Cheng, 94f:52010**

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Butnariu, Dan (*with* Mehrez, Abraham) Convergence criteria for generalized gradient methods of solving locally Lipschitz feasibility problems. (English summary) **94e:90092**
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Li, Zhong Fei (*with* Wang, Shou Yang) Lagrange duality and scalarization theorems in multiobjective programming. (Chinese. English summary) **94m:90096**
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Phan Thiên Thạch D.c. sets, d.c. functions and nonlinear equations. (English summary) **94b:90076**
Roberts, A. W. Convex functions. **94h:26015**
Volle, Michel A formula on the subdifferential of the deconvolution of convex functions. (English summary) **94b:49030**
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52A55 Spherical and hyperbolic convexity

Hodgson, C. D. *see* **Rivin, Igor**
Rivin, Igor (*with* Hodgson, C. D.) Corrigendum: "A characterization of compact convex polyhedra in hyperbolic 3-space" [Invent. Math. **111** (1993), no. 1, 77–111; MR 93j:52015]. **Şandru, Ion** *see* **Udrişte, Constantin; et al., 94m:52012**
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Martini, Horst Regular simplices in spaces of constant curvature. **94e:52011**
Molnár, Emil Klassifikation der hyperbolischen Dodekaederpflasterungen von maximalen Flächentransitiven Bewegungsgruppen. (English summary) [Classification of hyperbolic dodecahedron tilings of maximal face transitive groups of motions] **94h:52046**
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52A99 None of the above, but in this section

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52Bxx Polytopes and polyhedra

Holden, Alan ★ Shapes, space, and symmetry. (English summary) **94a:52022**
Keller, Jaime Dirac equations with electroweak and color symmetry. (English summary) **94d:81240**

52B05 Combinatorial properties (number of faces, shortest paths, etc.) [see also 05Cxx]

Brightwell, Graham (*with* Trotter, William T.) The order dimension of convex polytopes. (English summary) **94d:52013**
Chen, Beifang On the Euler characteristic of finite unions of convex sets. (English summary) **94d:52014**
Jendrol', Stanislav On face vectors and vertex vectors of convex polyhedra. (English summary) **94h:52017**
Kupitz, Yaakov S. On the existence of a combinatorial Schlegel diagram of a simplicial unstacked 3-polytope with a prescribed set of vertices. (English summary) **94i:52012**
McMullen, Peter On simple polytopes. (English summary) **94d:52015**
Perles, Micha A. (*with* Prabhu, Nagabhushana) A property of graphs of convex polytopes. **94a:52023**
Pisanski, Tomaž Fullerenes. (Slovenian. English and Slovenian summaries) **94m:52013**
Prabhu, Nagabhushana *see* **Perles, Micha A., 94a:52023**
Stachel, Hellmuth On the identity of polyhedra. **94j:52016**
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Yablokova, S. I. A model of a space of almost barycentric triangulations of a two-dimensional simplex. Preliminary constructions. (Russian) **94f:52011**

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Barnette, D. W. A 2-manifold of genus 8 without the W_6-property. (English summary) **94d:52020**
Bayer, Margaret M. Equidecomposable and weakly neighborly polytopes. (English summary) **94m:52015**
Bonin, Joseph E. (*with* Shapiro, Louis; Simion, Rodica) Some q-analogues of the Schröder numbers arising from combinatorial statistics on lattice paths. (English summary) **94e:05029**
Har'El, Zvi Uniform solution for uniform polyhedra. (English summary) **94k:52016**
Hibi, Takayuki Combinatorics of simplicial complexes and complex polyhedra. (Japanese) **94e:52012**
Kobayasi, Mituo (*with* Suzuki, Takuzi) Calculation of coordinates of vertices of all convex polyhedra with regular faces. (Japanese. English summary) **94b:52019**
Lee, Shyh Nan *see* **Shih, Mou Hsiang, 94b:05008**
Pták, Vlastimil Critical exponents. **94k:47006**
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Simion, Rodica *see* **Bonin, Joseph E.; et al., 94e:05029**
Suzuki, Takuzi *see* **Kobayasi, Mituo, 94b:52019**
Tkáč, Michal Combinatorial properties of certain classes of 3-polytopal planar graphs. **94b:05163**

52B10 Three-dimensional polytopes

Borodin, O. V. An extension of Kotzig's theorem on the minimum weight of edges in 3-polytopes. (English summary) **94a:52024**
Burdina, V. I. The external form symmetry of stereohedra and coordination polyhedra of dual subdivisions of a three-dimensional sphere of revolution. (Russian) **94h:52018**
Coxeter, H. S. M. (*with* Shephard, G. C.) Portraits of a family of complex polytopes. (English summary) (*see* **94h:00013**)

Dragomir, A.-D. Referring to a model that generalizes the rhombohedron. (Romanian summary) (*see* **94j:00024**)
Har'El, Zvi Uniform solution for uniform polyhedra. (English summary) **94k:52016**
Rivin, Igor On geometry of convex ideal polyhedra in hyperbolic 3-space. **94a:52025**
Shephard, G. C. *see* **Coxeter, H. S. M., (94h:00013)**

Items with secondary classifications in 52B10

Gurin, A. M. Infinite convex polyhedra with equi-angular faces. (Russian. Russian summary) **94d:52021**
Joe, Barry *see* **Liu, Anwei, 94j:65113**
Kupitz, Yaakov S. On the existence of a combinatorial Schlegel diagram of a simplicial unstacked 3-polytope with a prescribed set of vertices. (English summary) **94i:52012**
Liu, Anwei (*with* Joe, Barry) On the shape of tetrahedra from bisection. (English summary) **94j:65113**

52B11 n-dimensional polytopes

Betke, Ulrich (*with* Henk, Martin) Intrinsic volumes and lattice points of crosspolytopes. (English summary) **94g:52010**
Bezdek, Károly (*with* Bisztriczky, T.) Hadwiger's covering conjecture and low-dimensional dual cyclic polytopes. (English summary) **94e:52010**
Bilinski, Stanko Ein Beitrag zur Polyedertheorie der Rhombokubooktaeder-Familie. [A contribution to the polyhedron theory of the rhombocuboctahedron family] **94h:52019**
Bisztriczky, T. *see* **Bezdek, Károly, 94e:52010**
Fischer, Klaus G. (*with* Shapiro, Jay) Generating prime ideals in the Minkowski ring of polytopes. (English summary) **94m:52014**
Henk, Martin *see* **Betke, Ulrich, 94g:52010**
Jaritz, Renate Ein Existenzsatz für Elementarinhalte. (English summary) [An existence theorem for elementary contents] **94g:52011**
Martini, Horst Regular simplices in spaces of constant curvature. **94e:52011**
Nguyễn Mạnh Hùng (*with* Soltan, V. P.) Lower bounds for the numbers of antipodal pairs and strictly antipodal pairs of vertices in a convex polytope. (English summary) **94j:52017**
Senechal, Marjorie Isohedral parallelotopes. (Russian) (*see* **94a:20004**)
Shapiro, Jay *see* **Fischer, Klaus G., 94m:52014**
Soltan, V. P. *see* **Nguyễn Mạnh Hùng, 94j:52017**
Sturmfels, Bernd (*with* Zelevinsky, A. V.) Maximal minors and their leading terms. **94h:52020**
Wetzel, John E. Which Grünbaum arrangements are simplicial? **94b:52016**
Zelevinsky, A. V. *see* **Sturmfels, Bernd, 94h:52020**

Items with secondary classifications in 52B11

Baryshnikov, Yuliy M. (*with* Vitale, Richard A.) Regular simplices and Gaussian samples. (English summary) **94j:60017**
Brânzei, Dan Minimal admissible pavings for simplexes. (French summary) **94i:52016**
Kapranov, M. M. The permutoassociahedron, Mac Lane's coherence theorem and asymptotic zones for the KZ equation. (English summary) **94b:52017**
Vitale, Richard A. *see* **Baryshnikov, Yuliy M., 94j:60017**

52B12 Special polytopes (linear programming, centrally symmetric, etc.)

Archdeacon, Dan (*with* Negami, Seiya) The construction of self-dual projective polyhedra. (English summary) **94f:52012**
Deza, Michel (*with* Laurent, Monique) The even and odd cut polytopes. (English summary) **94j:52018**
Gritzmann, Peter (*with* Klee, Victor) Computational complexity of inner and outer j-radii of polytopes in finite-dimensional normed spaces. (English summary) **94k:52017**
Jegier, J. (*with* Rycerz, A.) Polyhedrality of integer monoids and slices. **94f:52013**
Kapranov, M. M. The permutoassociahedron, Mac Lane's coherence theorem and asymptotic zones for the KZ equation. (English summary) **94b:52017**
Klee, Victor *see* **Gritzmann, Peter, 94k:52017**
Kravtsov, M. K. Transportation polytopes with a minimal number of k-faces. (Russian. Russian summary) **94h:52021**
Laurent, Monique *see* **Deza, Michel, 94j:52018**
McMullen, Peter (*with* Monson, Barry; Weiss, Asia Ivić) Regular maps constructed from linear groups. (English summary) **94j:52019**
Monson, Barry *see* **McMullen, Peter; et al., 94j:52019**
Negami, Seiya *see* **Archdeacon, Dan, 94f:52012**
Onn, Shmuel Geometry, complexity, and combinatorics of permutation polytopes. (English summary) **94j:52020**
Reinelt, Gerhard A note on small linear-ordering polytopes. (English summary) **94b:52018**
Rycerz, A. *see* **Jegier, J., 94f:52013**
Weiss, Asia Ivić *see* **McMullen, Peter; et al., 94j:52019**

Items with secondary classifications in 52B12

Balas, Egon (*with* Qi, Li Qun) Linear-time separation algorithms for the three-index assignment polytope. (English summary) **94c:90069**
Balinski, Michel L. (*with* Rispoli, Fred J.) Signature classes of transportation polytopes. (English summary) **94h:90037**
Bondarenko, V. A. A class of polyhedra and their use in combinatorial optimization. (Russian) **94c:90072**
Boyd, E. Andrew Polyhedral results for the precedence-constrained knapsack problem. (English summary) **94a:90022**
Burkard, Rainer E. Convexity and discrete optimization. **94m:90087**
Deza, Michel (*with* Laurent, Monique; Poljak, Svatopluk) The cut cone. III. On the role of triangle facets. **94c:90075**
— (*with* Laurent, Monique) Facets for the cut cone. I. (English summary) **94c:90073**
— (*with* Laurent, Monique) Facets for the cut cone. II. Clique-web inequalities. (English summary) **94c:90074**
Fedenya, O. A. *see* **Isachenko, A. N., 94k:05207**
Füredi, Zoltán (*with* Kahn, Jeffry N.; Seymour, P. D.) On the fractional matching polytope of a hypergraph. (English summary) **94i:05105**
Gritzmann, Peter (*with* Wills, Jörg M.) Lattice points. **94k:52026**
Gwan, Geena (*with* Qi, Li Qun) On facets of the three-index assignment polytope. (English summary) **94c:90076**
Heil, Erhard (*with* Martini, Horst) Special convex bodies. **94h:52001**
Isachenko, A. N. (*with* Fedenya, O. A.) The polyhedron of cuts of a graph. (Russian. English and Russian summaries) **94k:05207**
Kahn, Jeffry N. *see* **Füredi, Zoltán; et al., 94i:05105**
Laurent, Monique *see* **Deza, Michel, 94c:90073; 94c:90074** *and* **94c:90075**
Martini, Horst *see* **Heil, Erhard, 94h:52001**
Naddef, Denis The binested inequalities for the symmetric traveling salesman polytope. (English summary) **94c:90080**
— (*with* Rinaldi, Giovanni) The graphical relaxation: a new framework for the symmetric traveling salesman polytope. (English summary) **94c:90081**
Onn, Shmuel Approximating oracle machines for combinatorial optimization. (English summary) **94k:90080**
Poljak, Svatopluk *see* **Deza, Michel; et al., 94c:90075**
Qi, Li Qun *see* **Balas, Egon, 94c:90069** *and* **Gwan, Geena, 94c:90076**
Queyranne, Maurice (*with* Wang, Yaoguang) Hamiltonian path and symmetric travelling salesman polytopes. (English summary) **94c:90082**
Rinaldi, Giovanni *see* **Naddef, Denis, 94c:90081**
Rispoli, Fred J. *see* **Balinski, Michel L., 94h:90037**
Seymour, P. D. *see* **Füredi, Zoltán; et al., 94i:05105**
Sturmfels, Bernd (*with* Zelevinsky, A. V.) Maximal minors and their leading terms. **94h:52020**
Wang, Yaoguang *see* **Queyranne, Maurice, 94c:90082**
Wills, Jörg M. *see* **Gritzmann, Peter, 94k:52026**
Zelevinsky, A. V. *see* **Sturmfels, Bernd, 94h:52020**

52B15 Symmetry properties of polytopes

Kajikawa, Yasushi Growing icosahedra. **94f:52014**
Kobayasi, Mituo (*with* Suzuki, Takuzi) Calculation of coordinates of vertices of all convex polyhedra with regular faces. (Japanese. English summary) **94b:52019**
Suzuki, Takuzi *see* **Kobayasi, Mituo, 94b:52019**

Items with secondary classifications in 52B15

Bilinski, Stanko Ein Beitrag zur Polyedertheorie der Rhombokubooktaeder-Familie. [A contribution to the polyhedron theory of the rhombocuboctahedron family] **94h:52019**
Rudnitskii, O. I. Some properties of the basis invariants of the symmetry groups $G(m,p,n)$, B_n^m and D_n^m. (Russian. Russian summary) **94h:20056**

52B20 Lattice polytopes (including relations with commutative algebra and algebraic geometry) [see also 06A08, 13F20, 13Hxx]

Bernstein, David H. (*with* Zelevinsky, A. V.) Combinatorics of maximal minors. (English summary) **94j:52021**
Brion, Michel Polyèdres et réseaux. [Polyhedra and lattices] **94c:52010**
Deza, Michel (*with* Grishukhin, V. P.; Laurent, Monique) Extreme hypermetrics and L-polytopes. (English summary) **94f:52015**
Grishukhin, V. P. *see* **Deza, Michel; et al., 94f:52015**
Hibi, Takayuki Combinatorics of simplicial complexes and complex polyhedra. (Japanese) **94e:52012**
Kantor, Jean-Michel (*with* Khovanskiĭ, A. G.) Une application du théorème de Riemann-Roch combinatoire au polynôme d'Ehrhart des polytopes entiers de $\mathbf{R}^d$. (English and French summaries) [An application of the combinatorial Riemann-Roch theorem to the Ehrhart polynomial of integral polytopes in $\mathbf{R}^d$] **94k:52018**
Khovanskii, A. G. *see* **Kantor, Jean-Michel, 94k:52018**
Korneenko, N. M. (*with* Metel'skiĭ, N. N.) On lattice points in polyhedral cross-sections. (English summary) **94b:52020**
Laurent, Monique *see* **Deza, Michel; et al., 94f:52015**
Metel'skii, N. N. *see* **Korneenko, N. M., 94b:52020**
Stanley, Richard P. A monotonicity property of h-vectors and h^*-vectors. (English summary) **94f:52016**
Zelevinsky, A. V. *see* **Bernstein, David H., 94j:52021**

Items with secondary classifications in 52B20

de Alwis, Tilak Properties of Betti numbers of ideals associated to n-gons. **94a:13019**
Barvinok, A. I. Computing the volume, counting integral points, and exponential sums. (English summary) **94d:52005**
Bier, Thomas Totientenzahlen und simpliziale Komplexe. (German summary) [Totient numbers and simplicial complexes] **94k:05218**
Caspar, Donald L. D. Deltahedral views of fullerene polymorphism. (English summary) **94m:52021**
Ding, Ren (*with* Kołodziejczyk, Krzysztof; Murphy, Grattan; Reay, John) A fast Pick-type approximation for areas of H-polygons. **94h:52011**
Eikelberg, Markus Picard groups of compact toric varieties and combinatorial classes of fans. (English summary) **94b:14052**
Ewald, Günter Algebraic geometry and convexity. **94h:14050**
Fischer, Klaus G. (*with* Shapiro, Jay) Generating prime ideals in the Minkowski ring of polytopes. (English summary) **94m:52014**
Grünbaum, Branko (*with* Shephard, G. C.) Pick's theorem. **94j:52012**
Kapranov, M. M. The permutoassociahedron, Mac Lane's coherence theorem and asymptotic zones for the KZ equation. (English summary) **94b:52017**
Khovanskii, A. G. The Newton polytope, the Hilbert polynomial and sums of finite sets. (Russian. Russian summary) **94e:14068**
— *see also* **Pukhlikov, A. V., 94c:14044**

Kołodziejczyk, Krzysztof *see* **Ding, Ren; et al., 94h:52011**
Liu, Ji Yong (*with* Trotter, Leslie E., Jr.; Ziegler, Günter M.) On the height of the minimal Hilbert basis. (English summary) **94f:52029**
Morelli, Robert A theory of polyhedra. **94f:52023**
— Translation scissors congruence. **94f:52024**
— The K-theory of a toric variety. **94j:14047**
— Pick's theorem and the Todd class of a toric variety. **94j:14048**
Murphy, Grattan *see* **Ding, Ren; et al., 94h:52011**
Pedersen, Paul (*with* Sturmfels, Bernd) Product formulas for resultants and Chow forms. **94m:14068**
Pukhlikov, A. V. (*with* Khovanskiĭ, A. G.) The Riemann-Roch theorem for integrals and sums of quasipolynomials on virtual polytopes. (Russian. Russian summary) **94c:14044**
Rabinowitz, Stanley $O(n^3)$ bounds for the area of a convex lattice n-gon. **94b:52028**
Reay, John *see* **Ding, Ren; et al., 94h:52011**
Shapiro, Jay *see* **Fischer, Klaus G., 94m:52014**
Shephard, G. C. *see* **Grünbaum, Branko, 94j:52012**
Sturmfels, Bernd Sparse elimination theory. **94k:13035**
— *see also* **Pedersen, Paul, 94m:14068**
Takeuchi, Yasuji On Cohen-Macaulay simplicial complexes. **94b:13015**
Trotter, Leslie E., Jr. *see* **Liu, Ji Yong; et al., 94f:52029**
Ziegler, Günter M. *see* **Liu, Ji Yong; et al., 94f:52029**

52B30 Arrangements of hyperplanes

Aicardi, Francesca Sur le découpage de domaines bornés de dimension N. (English and French summaries) [On the cutting of N-dimensional bounded domains] **94b:52021**
Aronov, Boris (*with* Naiman, Daniel Q.; Pach, János; Sharir, Micha) An invariant property of balls in arrangements of hyperplanes. (English summary) **94j:52022**
Clarkson, Kenneth L. A bound on local minima of arrangements that implies the upper bound theorem. (English summary) **94k:52019**
Cordovil, R. (*with* Moreira, M. L.) A homotopy theorem on oriented matroids. (English summary) **94d:52016**
Edelsbrunner, Herbert (*with* Seidel, Raimund; Sharir, Micha) On the zone theorem for hyperplane arrangements. (English summary) **94a:52026**
Fleischmann, Peter (*with* Janiszczak, Ingo) Combinatorics and Poincaré polynomials of hyperplane complements for exceptional Weyl groups. **94e:52013**
Fukuda, Komei (*with* Tamura, Akihisa; Tokuyama, Takeshi) A theorem on the average number of subfaces in arrangements and oriented matroids. (English summary) **94g:52012**
Guibas, Leonidas J. (*with* Sharir, Micha) Combinatorics and algorithms of arrangements. **94g:52013**
Hu, Yi On the homology of complements of arrangements of subspaces and spheres. (English summary) **94k:52020**
Janiszczak, Ingo *see* **Fleischmann, Peter, 94e:52013**
Jiang, Tan (*with* Yau, Stephen S.-T.) Topological and differentiable structures of the complement of an arrangement of hyperplanes. **94d:52017**
— (*with* Yau, Stephen S.-T.) Topological invariance of intersection lattices of arrangements in $\mathbb{CP}^2$. (English summary) **94b:52022**
Józefiak, Tadeusz (*with* Sagan, Bruce E.) Basic derivations for subarrangements of Coxeter arrangements. (English summary) **94j:52023**
Kim, Minhyong On Poincaré polynomials for hyperplane arrangements in positive characteristic. **94a:52027**
Linhart, Johann Arrangements of oriented hyperplanes. (English summary) **94j:52024**
— On the total weight of arrangements of halfplanes. (English summary) **94d:52018**
Meiser, Stefan Point location in arrangements of hyperplanes. (English summary) **94h:52022**
Moreira, M. L. *see* **Cordovil, R., 94d:52016**
Naiman, Daniel Q. *see* **Aronov, Boris; et al., 94j:52022**
Orlik, Peter (*with* Terao, Hiroaki) ★ Arrangements of hyperplanes. **94e:52014**
— (*with* Terao, Hiroaki) Coxeter arrangements are hereditarily free. (English summary) **94h:52023**
Pach, János *see* **Aronov, Boris; et al., 94j:52022**
Pakula, Lewis Regions cut by arrangements of topological spheres. (English summary) **94d:52019**
Paris, Luis Arrangements of hyperplanes with property D. (English summary) **94a:52028**
— The Deligne complex of a real arrangement of hyperplanes. **94i:52013**
— The covers of a complexified real arrangement of hyperplanes and their fundamental groups. (English summary) **94i:52014**
— Universal cover of Salvetti's complex and topology of simplicial arrangements of hyperplanes. **94a:52029**
Sagan, Bruce E. *see* **Józefiak, Tadeusz, 94j:52023**
Seidel, Raimund *see* **Edelsbrunner, Herbert; et al., 94a:52026**
Sharir, Micha *see* **Edelsbrunner, Herbert; et al., 94a:52026**; **Guibas, Leonidas J., 94g:52013** *and* **Aronov, Boris; et al., 94j:52022**
Tamura, Akihisa *see* **Fukuda, Komei; et al., 94g:52012**
Terao, Hiroaki *see* **Orlik, Peter, 94e:52014** *and* **94h:52023**
Tokuyama, Takeshi *see* **Fukuda, Komei; et al., 94g:52012**
Varchenko, A. N. Bilinear form of real configuration of hyperplanes. **94b:52023**
Yau, Stephen S.-T. *see* **Jiang, Tan, 94b:52022** *and* **94d:52017**
Ziegler, Günter M. Some almost exceptional arrangements. (English summary) **94g:52014**
— On the difference between real and complex arrangements. **94f:52017**
— Higher Bruhat orders and cyclic hyperplane arrangements. **94e:52015**

Items with secondary classifications in 52B30

Artal-Bartolo, Enrique Combinatorics and topology of line arrangements in the complex projective plane. (English summary) **94h:14020**
Brylawski, Thomas H. (*with* Ziegler, Günter M.) Topological representation of dual pairs of oriented matroids. (English summary) **94g:52015**
Chen, Dong Sheng (*with* Wan, Zhe Xian) An arrangement in orthogonal geometry over finite field of char = 2. (English summary) **94g:51022**
Cohen, Daniel C. Cohomology and intersection cohomology of complex hyperplane arrangements. **94a:32055**
Csima, J. (*with* Sawyer, E. T.) There exist $6n/13$ ordinary points. (English summary) **94a:52015**
Edelsbrunner, Herbert (*with* Seidel, Raimund; Sharir, Micha) On the zone theorem for hyperplane arrangements. (English summary) **94g:52018**
Esnault, Hélène (*with* Schechtman, Vadim V.; Viehweg, Eckart) Erratum: "Cohomology of local systems on the complement of hyperplanes" [Invent. Math. **109** (1992), no. 3, 557–561; MR 93g:32051]. **94b:32061**
Falk, Michael J. A geometric duality for order complexes and hyperplane complements. (English summary) **94d:55025**
Goncharov, A. B. The classical polylogarithms, algebraic K-theory and $\zeta_F(n)$. **94k:11126**
Kim, Minhyong Weights in cohomology groups arising from hyperplane arrangements. (English summary) **94e:14027**
Mnëv, N. E. (*with* Ziegler, Günter M.) Combinatorial models for the finite-dimensional Grassmannians. (English summary) **94g:52016**
Penne, R. Configurations of few lines in 3-space. Isotopy, chirality and planar layouts. (English summary) **94a:52017**
Richter-Gebert, Jürgen Oriented matroids with few mutations. (English summary) **94f:52019**
Sawyer, E. T. *see* **Csima, J., 94a:52015**
Schechtman, Vadim V. *see* **Esnault, Hélène; et al., 94b:32061**
Seidel, Raimund *see* **Edelsbrunner, Herbert; et al., 94g:52018**
Sharir, Micha *see* **Edelsbrunner, Herbert; et al., 94g:52018**
da Silva, Ilda P. F. On fillings of $2N$-gons with rhombi. (English summary) **94f:52021**
Sturmfels, Bernd (*with* Ziegler, Günter M.) Extension spaces of oriented matroids. (English summary) **94i:52015**
Varchenko, A. N. Hodge filtration of hypergeometric integrals associated with an affine configuration of general position and a local Torelli theorem. **94f:32074**
Vassiliev, V. A. Complexes of connected graphs. **94h:55032**
Viehweg, Eckart *see* **Esnault, Hélène; et al., 94b:32061**
Wan, Zhe Xian *see* **Chen, Dong Sheng, 94g:51022**
Wetzel, John E. Which Grünbaum arrangements are simplicial? **94b:52016**
Ziegler, Günter M. (*with* Živaljević, Rade T.) Homotopy types of subspace arrangements via diagrams of spaces. **94c:55018**
— *see also* **Brylawski, Thomas H., 94g:52015**; **Mnëv, N. E., 94g:52016** *and* **Sturmfels, Bernd, 94i:52015**
Živaljević, Rade T. *see* **Ziegler, Günter M., 94c:55018**

52B35 Gale and other diagrams

Bayer, Margaret M. Equidecomposable and weakly neighborly polytopes. (English summary) **94m:52015**

Items with secondary classifications in 52B35

Kupitz, Yaakov S. On the existence of a combinatorial Schlegel diagram of a simplicial unstacked 3-polytope with a prescribed set of vertices. (English summary) **94i:52012**
McMullen, Peter On simple polytopes. (English summary) **94d:52015**

52B40 Matroids (realizations in the context of convex polytopes, convexity in combinatorial structures, etc.) [see also 05B35]

Björner, Anders The homology and shellability of matroids and geometric lattices. **94a:52030**
Brylawski, Thomas H. (*with* Ziegler, Günter M.) Topological representation of dual pairs of oriented matroids. (English summary) **94g:52015**
Florian, A. Extremum problems for convex discs and polyhedra. **94h:52024**
Goodman, Jacob E. (*with* Pollack, Richard) Allowable sequences and order types in discrete and computational geometry. **94j:52025**
Mihail, Milena On the expansion of combinatorial polytopes. (English summary) **94k:52021**
Mnëv, N. E. (*with* Richter-Gebert, Jürgen) Two constructions of oriented matroids with disconnected extension space. (English summary) **94f:52018**
— (*with* Ziegler, Günter M.) Combinatorial models for the finite-dimensional Grassmannians. (English summary) **94g:52016**
Pollack, Richard *see* **Goodman, Jacob E., 94j:52025**
Richter-Gebert, Jürgen Oriented matroids with few mutations. (English summary) **94f:52019**
— Combinatorial obstructions to the lifting of weaving diagrams. (English summary) **94f:52020**
— *see also* **Mnëv, N. E., 94f:52018**
da Silva, Ilda P. F. On fillings of $2N$-gons with rhombi. (English summary) **94f:52021**
Sturmfels, Bernd (*with* Ziegler, Günter M.) Extension spaces of oriented matroids. (English summary) **94i:52015**
Ziegler, Günter M. What is a complex matroid? (English summary) **94j:52026**
— *see also* **Brylawski, Thomas H., 94g:52015**; **Mnëv, N. E., 94g:52016** *and* **Sturmfels, Bernd, 94i:52015**

Items with secondary classifications in 52B40

Brehm, Ulrich (*with* Wills, Jörg M.) Polyhedral manifolds. **94j:52031**
Chari, Manoj K. Steiner complexes, matroid ports, and shellability. (English summary) **94e:05071**
Cordovil, R. (*with* Moreira, M. L.) Bases-cobases graphs and polytopes of matroids. (English summary) **94h:05019**
— (*with* Moreira, M. L.) A homotopy theorem on oriented matroids. (English summary) **94d:52016**
Deza, Michel (*with* Laurent, Monique) The even and odd cut polytopes. (English summary) **94j:52018**

Fukuda, Komei (*with* Tamura, Akihisa; Tokuyama, Takeshi) A theorem on the average number of subfaces in arrangements and oriented matroids. (English summary) **94g:52012**
Handa, Keiichi Topes of oriented matroids and related structures. (English summary) **94a:05041**
Laurent, Monique *see* **Deza, Michel, 94j:52018**
MacPherson, Robert Combinatorial differential manifolds. **94d:57047**
Moreira, M. L. *see* **Cordovil, R., 94d:52016** *and* **94h:05019**
Nobili, Paolo (*with* Sassano, Antonio) The anti-join composition and polyhedra. (English summary) **94i:05023**
Richter-Gebert, Jürgen Euclideanness and final polynomials in oriented matroid theory. (English summary) **94i:05025**
Sassano, Antonio *see* **Nobili, Paolo, 94i:05023**
Tamura, Akihisa *see* **Fukuda, Komei; et al., 94g:52012**
Tokuyama, Takeshi *see* **Fukuda, Komei; et al., 94g:52012**
Wills, Jörg M. *see* **Brehm, Ulrich, 94j:52031**

52B45 Dissections and valuations (Hilbert's third problem, etc.)

Bränzei, Dan Minimal admissible pavings for simplexes. (French summary) **94i:52016**
Deuber, Walter A. "Paradoxe" Zerlegung Euklidischer Räume. (German summary) ["Paradoxical" decomposition of Euclidean spaces] **94c:52011**
Edelstein, Michael (*with* Johnson, Keith Peter; Thompson, Anthony C.) On the isometric dissection problem for convex sets. **94f:52022**
Hughes, Robert B. Minimum-cardinality triangulations of the d-cube for $d = 5$ and $d = 6$. (English summary) **94h:52025**
Johnson, Keith Peter *see* **Edelstein, Michael; et al., 94f:52022**
Milka, A. D. An analogue of the Borsuk problem. (Russian) **94j:52027**
Morelli, Robert A theory of polyhedra. **94f:52023**
— Translation scissors congruence. **94f:52024**
Petrunin, A. M. (*with* Rukshin, S. E.) On the equidecomposability of circular polygons. (Russian) **94b:52024**
Rukshin, S. E. *see* **Petrunin, A. M., 94b:52024**
Thompson, Anthony C. *see* **Edelstein, Michael; et al., 94f:52022**
Tschirpke, Katrin On the dissection of simplices into orthoschemes. (English summary) **94m:52016**

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Morelli, Robert The K-theory of a toric variety. **94j:14047**
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Banchoff, Thomas (*with* Kühnel, Wolfgang) Equilibrium triangulations of the complex projective plane. (English summary) **94a:52035**
Bandieri, Paola Contracted k-tessellations of closed surfaces. (English summary) **94k:52024**
Barnette, D. W. A 2-manifold of genus 8 without the W_6-property. (English summary) **94d:52020**
Brehm, Ulrich (*with* Wills, Jörg M.) Polyhedral manifolds. **94j:52031**
Gurin, A. M. Infinite convex polyhedra with equi-angular faces. (Russian. Russian summary) **94d:52021**
Jendrol, Stanislav On face-vectors and vertex-vectors of polyhedral maps on orientable 2-manifolds. (English summary) **94j:52032**
Kühnel, Wolfgang *see* **Banchoff, Thomas, 94a:52035**
Schulz, Christoph Polyedrische Mannigfaltigkeiten. [Polyhedral manifolds] **94h:52031**
Wills, Jörg M. *see* **Brehm, Ulrich, 94j:52031**

Items with secondary classifications in 52B70

Brehm, Ulrich (*with* Kühnel, Wolfgang) 15-vertex triangulations of an 8-manifold. **94e:57033**
Crapo, Henry (*with* Whiteley, Walter) Autocontraintes planes et polyèdres projetés. I. Le motif de base. (English and French summaries) [Plane self stresses and projected polyhedra. I. The basic pattern] **94g:52028**
Fisk, Steve (*with* Mohar, Bojan; Nedela, Roman) Minimal locally cyclic triangulations of the projective plane. (English summary) **94j:05046**
Fu, Joseph H. G. Convergence of curvatures in secant approximations. **94a:53103**
Kühnel, Wolfgang *see* **Brehm, Ulrich, 94e:57033**
Lorimer, Peter Four dodecahedral spaces. (English summary) **94a:57026**
Mohar, Bojan *see* **Fisk, Steve; et al., 94j:05046**
Molnár, Emil Klassifikation der hyperbolischen Dodekaederpflasterungen von maximalen Flächentransitiven Bewegungsgruppen. (English summary) [Classification of hyperbolic dodecahedron tilings of maximal face transitive groups of motions] **94h:52046**
Nedela, Roman *see* **Fisk, Steve; et al., 94j:05046**
Whiteley, Walter *see* **Crapo, Henry, 94g:52028**

52B99 None of the above, but in this section

Items with secondary classifications in 52B99

Atkinson, David S. (*with* Vaidya, Pravin M.) A scaling technique for finding the weighted analytic center of a polytope. (English summary) **94b:90069**
Nobili, Paolo (*with* Sassano, Antonio) Polyhedral properties of clutter amalgam. (English summary) **94h:05060**
Sassano, Antonio *see* **Nobili, Paolo, 94h:05060**
Vaidya, Pravin M. *see* **Atkinson, David S., 94b:90069**

52Cxx Discrete geometry

52C05 Lattices and convex bodies in 2 dimensions [see also 11H06, 11H31, 11P21]

Braß, Peter Triangulations and lattice points. (English summary) **94g:52019**
Rabinowitz, Stanley $O(n^3)$ bounds for the area of a convex lattice n-gon. **94b:52028**
Suzuki, Toshi-kazu One-dimensional quasiperiodic lattices: new trace formulae and new kinds of self-similar polynomials. (English summary) **94k:52025**

Items with secondary classifications in 52C05

Fejes Tóth, Gábor (*with* Kuperberg, Włodzimierz) A survey of recent results in the theory of packing and covering. **94h:52037**
Kuperberg, Włodzimierz *see* **Fejes Tóth, Gábor, 94h:52037**
Peri, Carla Curves and lattices of points in the Minkowski plane. (English summary) **94a:52010**

52C07 Lattices and convex bodies in n dimensions [see also 11H06, 11H31, 11P21]

Banaszczyk, Wojciech Balancing vectors and convex bodies. (English summary) **94g:52020**
Baranovskiĭ, E. P. (*with* Vlasov, E. V.; Novikova, N. V.) Primary elements of L-partitions of two-, three- and four-dimensional lattices. (Russian. Russian summary) **94f:52028**
Caspar, Donald L. D. Deltahedral views of fullerene polymorphism. (English summary) **94m:52021**
Coxeter, H. S. M. Cyclotomic integers, nondiscrete tessellations, and quasicrystals. (English summary) **94b:52029**
Dumir, V. C. (*with* Hans-Gill, R. J.; Wilker, J. B.) Contributions to a general theory of view-obstruction problems. (English summary) **94d:52022**
— (*with* Hans-Gill, R. J.; Wilker, J. B.) The view-obstruction constants for l_p-balls in $\mathbf{R}^3$. (English summary) **94j:52033**
Gritzmann, Peter (*with* Wills, Jörg M.) Lattice points. **94k:52026**
Hans-Gill, R. J. *see* **Dumir, V. C.; et al., 94d:52022** *and* **94j:52033**
Hausel, T. Transillumination of lattice packing of balls. **94h:52032**
Ikegami, Y. *see* **Watanabe, Yasunari, 94h:52034**
Liu, Ji Yong (*with* Trotter, Leslie E., Jr.; Ziegler, Günter M.) On the height of the minimal Hilbert basis. (English summary) **94f:52029**
Matveev, G. V. (*with* Petrova, G. L.) The structure of antichains in some polyhedral sets. (Russian. Russian summary) **94g:52021**
Moody, Robert V. (*with* Patera, J.) Quasicrystals and icosians. (English summary) **94f:52030**
Niizeki, Komajiro Theory of "self-similarity" of period approximants to a quasilattice. III. The case of a non-Bravais-type quasilattice. (English summary) **94f:52031**
Novikova, N. V. *see* **Baranovskiĭ, E. P.; et al., 94f:52028**
Patera, J. *see* **Moody, Robert V., 94f:52030**
Pervin, Edward The Voronoĭ cells of the E_6^* and E_7^* lattices. (English summary) **94h:52033**
Petrova, G. L. *see* **Matveev, G. V., 94g:52021**
Protasov, I. V. Cyclic measurement and lattices. (Russian) **94a:52036**
Schnell, Uwe Lattice inequalities for convex bodies and arbitrary lattices. (English summary) **94m:52022**
Trotter, Leslie E., Jr. *see* **Liu, Ji Yong; et al., 94f:52029**
Tsuchihashi, Hiroyasu On the volumes of integral convex polytopes satisfying certain conditions. **94k:52027**
Vlasov, E. V. *see* **Baranovskiĭ, E. P.; et al., 94f:52028**
Watanabe, Yasunari (*with* Ikegami, Y.) Matching rule for a self-similar 3D pseudo-octagonal quasilattice. (English summary) **94h:52034**
Wilker, J. B. *see* **Dumir, V. C.; et al., 94d:52022** *and* **94j:52033**
Wills, Jörg M. *see* **Gritzmann, Peter, 94k:52026**
Ziegler, Günter M. *see* **Liu, Ji Yong; et al., 94f:52029**

Items with secondary classifications in 52C07

Betke, Ulrich (*with* Henk, Martin) Intrinsic volumes and lattice points of crosspolytopes. (English summary) **94g:52010**
Deza, Michel (*with* Grishukhin, V. P.; Laurent, Monique) Extreme hypermetrics and L-polytopes. (English summary) **94f:52015**
Engel, Peter Geometric crystallography. **94i:20089**
Fejes Tóth, Gábor (*with* Kuperberg, Włodzimierz) Blichfeldt's density bound revisited. **94c:11055**
Grishukhin, V. P. *see* **Deza, Michel; et al., 94f:52015**
Gruber, Peter M. Geometry of numbers. **94k:11074**
Henk, Martin *see* **Betke, Ulrich, 94g:52010**
Korneenko, N. M. (*with* Metel'skiĭ, N. N.) On lattice points in polyhedral cross-sections. (English summary) **94b:52020**
Kuperberg, Włodzimierz *see* **Fejes Tóth, Gábor, 94c:11055**
Laurent, Monique *see* **Deza, Michel; et al., 94f:52015**
Maehara, Hiroshi Angles in lattice polygons. (English summary) **94j:51025**
Metel'skiĭ, N. N. *see* **Korneenko, N. M., 94b:52020**
Niizeki, Komajiro The space groups of cubic and orthorhombic approximants to the icosahedral quasicrystal. (English summary) **94j:82082**
Scarf, Herbert E. (*with* Shallcross, David F.) Shortest integer vectors. (English summary) **94j:11059**
Schnell, Uwe (*with* Wills, Jörg M.) On successive minima and intrinsic volumes. (English summary) **94k:52014**
Schrijver, Alexander Graphs on the torus and geometry of numbers. (English summary) **94i:05030**
Shallcross, David F. *see* **Scarf, Herbert E., 94j:11059**
Uhrin, B. A description of the segment $[1, T]$, where T is the meeting number of a set-lattice. **94g:11046**
Vince, Andrew Replicating tessellations. (English summary) **94e:52023**
Wills, Jörg M. *see* **Schnell, Uwe, 94k:52014**
Xu, Yijing (*with* Yau, Stephen S.-T.) Durfee conjecture and coordinate free characterization of homogeneous singularities. **94f:32073**

Yau, Stephen S.-T. *see* **Xu, Yijing, 94f:32073**

52C10 Erdős problems and related topics of discrete geometry [see also 11Hxx]

Alon, Noga (*with* Bárány, Imre; Füredi, Zoltán; Kleitman, Daniel J.) Point selections and weak ε-nets for convex hulls. (English summary) **94a:52037**
Bárány, Imre *see* **Alon, Noga; et al., 94a:52037**
Braß, Peter On the maximum densities of jth smallest distances. (English summary) **94j:52034**
Erdős, Paul (*with* Füredi, Zoltán; Pach, János; Ruzsa, Imre Z.) The grid revisited. (English summary) **94g:52022**
— (*with* Fishburn, Peter C.) A postscript on distances in convex n-gons. (English summary) **94j:52035**
— Distinct distances between points in the plane.
Fishburn, Peter C. (*with* Reeds, J. A.) Unit distances between vertices of a convex polygon. (English summary) **94b:52030**
— *see also* **Erdős, Paul, 94j:52035**
Füredi, Zoltán *see* **Alon, Noga; et al., 94a:52037** *and* **Erdős, Paul; et al., 94g:52022**
Kleitman, Daniel J. *see* **Alon, Noga; et al., 94a:52037**
Moser, W. (*with* Pach, János) Recent developments in combinatorial geometry. **94f:52032**
Pach, János *see* **Moser, W., 94f:52032** *and* **Erdős, Paul; et al., 94g:52022**
Reeds, J. A. *see* **Fishburn, Peter C., 94b:52030**
Ruzsa, Imre Z. *see* **Erdős, Paul; et al., 94g:52022**
Sendov, Blagovest On a conjecture of P. Erdős and G. Szekeres. **94h:52035**
— Optimal location of points in the plane with respect to the angle defined by them. (Bulgarian) **94j:52036**
Sharir, Micha k-sets and random hulls. (English summary) **94m:52023**

Items with secondary classifications in 52C10

Komjáth, Péter A decomposition theorem for $\mathbf{R}^n$. **94h:04005**
Kupitz, Yaakov S. Spanned k-supporting hyperplanes of finite sets in $\mathbf{R}^d$. (English summary) **94k:52011**
Nguyễn Mạnh Hùng (*with* Soltan, V. P.) Lower bounds for the numbers of antipodal pairs and strictly antipodal pairs of vertices in a convex polytope. (English summary) **94j:52017**
Soltan, V. P. *see* **Nguyễn Mạnh Hùng, 94j:52017**

52C15 Packing and covering in 2 dimensions [see also 05B40, 11H31]

Bálint, Vojtech A packing problem and geometrical series. (English summary) **94b:52031**
— (*with* Bálintová, A.; Branická, M.; et al.) Translative covering by homothetic copies. (English summary) **94c:52014**
Bálintová, A. *see* **Bálint, Vojtech; et al., 94c:52014**
Bárány, Imre (*with* Frankl, Peter; Maehara, Hiroshi) Reflecting a triangle in the plane. (English summary) **94d:52023**
Belyakova, L. B. (*with* Galaktionova, N. R.) Construction of the densest lattice packings of disks in the plane. (Russian) (*see* **94b:00022**)
Bezdek, Károly Hadwiger-Levi's covering problem revisited. **94g:52023**
Bowers, Philip L. The upper Perron method for labelled complexes with applications to circle packings. **94h:52036**
Brägger, Walter Kreispackungen und Triangulierungen. [Circle packings and triangulations] **94b:52032**
Branická, M. *see* **Bálint, Vojtech; et al., 94c:52014**
Fejes Tóth, Gábor (*with* Kuperberg, Włodzimierz) A survey of recent results in the theory of packing and covering. **94h:52037**
Frankl, Peter *see* **Bárány, Imre; et al., 94d:52023**
Galaktionova, N. R. *see* **Belyakova, L. B., (94b:00022)**
Hárs, L. On the density of floating balls. **94e:52018**
Kuperberg, Włodzimierz *see* **Fejes Tóth, Gábor, 94h:52037**
Li, Qing Hua (*with* Yan, Yong; Liu, Jian^2) Approximation algorithms for solving packing problems of convex polygons in plane. (English summary) **94f:52033**
Liu, Jian^2 *see* **Li, Qing Hua; et al., 94f:52033**
Maehara, Hiroshi *see* **Bárány, Imre; et al., 94d:52023**
Melissen, Hans Densest packings of congruent circles in an equilateral triangle. **94k:52028**
Mohar, Bojan A polynomial time circle packing algorithm. (English summary) **94h:52038**
Páles, Zsolt On a generalization of the plank problem. **94e:52019**
Rödiger, Silvia Untersuchungen zur Packungskonstante von Halbellipsen. [Investigations on the packing constant of semi-ellipses] **94a:52038**
Vásárhelyi, Éva Covering of a triangle by homothetic triangles. **94i:52017**
Wegner, Gerd Relative Newton numbers. (English summary) **94c:52015**
Yan, Yong *see* **Li, Qing Hua; et al., 94f:52033**

Items with secondary classifications in 52C15

Aharonov, Dov The hexagonal packing lemma and Rodin Sullivan conjecture. **94g:30026**
Blaser, Harry ★ Regelmässige Kreisteilungen und Kreisketten. (German) [Regular cyclotomies and chains of circles] **94a:00005**
Bowers, Philip L. (*with* Stephenson, Kenneth) Circle packings in surfaces of finite type: an in situ approach with applications to moduli. **94d:30083**
Doyle, Peter (*with* He, Zheng-Xu; Rodin, Burt) Second derivatives of circle packings and conformal mappings. (English summary) **94m:30017**
He, Zheng-Xu (*with* Rodin, Burt) Convergence of circle packings of finite valence to Riemann mappings. (English summary) **94m:30019**
— *see also* **Doyle, Peter; et al., 94m:30017**
Minda, David (*with* Rodin, Burt) Circle packing and Riemann surfaces. **94f:30056**
Peikert, Ronald Dichteste Packungen von gleichen Kreisen in einem Quadrat. (German summary) [Densest packings of equal circles in a square]
Rodin, Burt *see* **Minda, David, 94f:30056**; **Doyle, Peter; et al., 94m:30017** *and* **He, Zheng-Xu, 94m:30019**
Stephenson, Kenneth *see* **Bowers, Philip L., 94d:30083**
Van Eeuwen, Jeff The discrete Schwarz-Pick lemma for overlapping circles. (English summary) **94j:30021**
Vásárhelyi, Éva Ein isoperimetrisches Problem bezüglich Zerlegungen der Euklidischen Ebene. [An isoperimetric problem with respect to decompositions in the Euclidean plane] **94b:52027**

52C17 Packing and covering in n dimensions [see also 05B40, 11H31]

Alon, Noga (*with* Füredi, Zoltán) Covering the cube by affine hyperplanes. (English summary) **94a:52039**
Boyvalenkov, P. On the upper bounds for the kissing numbers. (English summary) **94h:52039**
Füredi, Zoltán *see* **Alon, Noga, 94a:52039**
Gandini, Pier Mario (*with* Zucco, Andreana) On the sausage catastrophe in 4-space. (English summary) **94d:52024**
Gritzmann, Peter (*with* Wills, Jörg M.) Finite packing and covering. **94h:52040**
Idzik, Adam (*with* Tan, Kok-Keong) Covering properties of simplexes. (English summary) **94f:52034**
Killingbergtrø, Hans Georg Touching oriented spheres. (Norwegian. English summary) **94d:52025**
Kołodziejczyk, Krzysztof Borsuk covering and planar sets with unique completion. (English summary) **94j:52037**
Muder, Douglas J. A new bound on the local density of sphere packings. (English summary) **94h:52041**
Soltan, V. P. (*with* Vásárhelyi, Éva) Covering a convex body by smaller homothetic copies. (English summary) **94a:52040**
Tan, Kok-Keong *see* **Idzik, Adam, 94f:52034**
Vásárhelyi, Éva *see* **Soltan, V. P., 94a:52040**
Wills, Jörg M. *see* **Gritzmann, Peter, 94h:52040**
Zucco, Andreana *see* **Gandini, Pier Mario, 94d:52024**

Items with secondary classifications in 52C17

Baranovskii, E. P. (*with* Vlasov, E. V.; Novikova, N. V.) Primary elements of L-partitions of two-, three- and four-dimensional lattices. (Russian. Russian summary) **94f:52028**
Bezdek, Károly (*with* Bisztriczky, T.) Hadwiger's covering conjecture and low-dimensional dual cyclic polytopes. (English summary) **94e:52010**
Bisztriczky, T. *see* **Bezdek, Károly, 94e:52010**
Bonnier, B. (*with* Hontebeyrie, M.; Meyers, C.) On the random filling of $\mathbf{R}^d$ by nonoverlapping d-dimensional cubes. (English summary) **94g:82045**
Dekster, Boris V. Every convex n-dimensional body with a smooth belt can be illuminated by $n+1$ directions. **94m:52003**
Fejes Tóth, Gábor (*with* Kuperberg, Włodzimierz) A survey of recent results in the theory of packing and covering. **94h:52037**
— (*with* Kuperberg, Włodzimierz) Blichfeldt's density bound revisited. **94c:11055**
Hausel, T. Transillumination of lattice packing of balls. **94h:52032**
Hontebeyrie, M. *see* **Bonnier, B.; et al., 94g:82045**
Kuperberg, Włodzimierz *see* **Fejes Tóth, Gábor, 94c:11055** *and* **94h:52037**
Lubachevsky, Boris D. *see* **Stillinger, Frank H., 94j:82083**
Meyers, C. *see* **Bonnier, B.; et al., 94g:82045**
Mosseri, Rémy *see* **Sadoc, J.-F., 94e:11075**
Novikova, N. V. *see* **Baranovskii, E. P.; et al., 94f:52028**
Rush, J. A. A bound, and a conjecture, on the maximum lattice-packing density of a superball. (English summary) **94h:11060**
Sadoc, J.-F. (*with* Mosseri, Rémy) The E_8 lattice and quasicrystals: geometry, number theory and quasicrystals. (English summary) **94e:11075**
Schnell, Uwe Lattice inequalities for convex bodies and arbitrary lattices. (English summary) **94m:52022**
Stillinger, Frank H. (*with* Lubachevsky, Boris D.) Crystalline-amorphous interface packings for disks and spheres. (English summary) **94j:82083**
Vlasov, E. V. *see* **Baranovskii, E. P.; et al., 94f:52028**
Wagner, Gerold On a new method for constructing good point sets on spheres. (English summary) **94a:52008**

52C20 Tilings in 2 dimensions [see also 05B45, 51M20]

Baake, Michael *see* **Klitzing, Richard; et al., 94d:52027**
Bailly, Francis *see* **Mosseri, Rémy, 94e:52021**
Burkov, S. E. Ground states of two-dimensional quasicrystals. (*see* **94d:82051**)
Calogero, A. Strong isoperimetric inequality for the edge graph of a tiling of the plane. **94m:52024**
Elkies, Noam (*with* Kuperberg, Greg; Larsen, Michael; Propp, James) Alternating-sign matrices and domino tilings. I. (English summary) **94f:52035**
— (*with* Kuperberg, Greg; Larsen, Michael; Propp, James) Alternating-sign matrices and domino tilings. II. (English summary) **94f:52036**
Franco, B. J. O. Third-order Fibonacci sequence associated to a heptagonal quasiperiodic tiling of the plane. (English summary) **94d:52026**
Grünbaum, Branko (*with* Shephard, G. C.) Interlace patterns in Islamic and Moorish art. (English summary) (*see* **94h:00013**)
Gummelt, Petra Self-similar sets and tilings. (English summary) **94h:52042**
Hazewinkel, Michiel Symmetry problems (symmetrical problems and problems in understanding symmetry). (Dutch) **94e:52020**
Huson, Daniel H. Tile-transitive partial tilings of the plane. (English summary) **94f:52037**
— The generation and classification of tile-k-transitive tilings of the Euclidean plane, the sphere and the hyperbolic plane. (English summary) **94i:52018**
Jablan, Slavik Vlado Periodic antisymmetry tilings. (English summary) **94m:52025**
Jones, Christopher B. Pavages de sommets d'espèce numéro 3. (English and French summaries) [Periodic tilings with vertices of species number 3] **94h:52043**

Kenyon, Claire (*with* Kenyon, Richard) Comment paver des polygones avec des barres. (English and French summaries) [Tiling polygons with bars] **94h:52044**
Kenyon, Richard Tiling a polygon with parallelograms. (English summary) **94a:52041**
— *see also* **Kenyon, Claire, 94h:52044**
Klitzing, Richard (*with* Schlottmann, Martin; Baake, Michael) Perfect matching rules for undecorated triangular tilings with 10-, 12-, and 8-fold symmetry. (English summary) **94d:52027**
Kuperberg, Greg *see* **Elkies, Noam; et al., 94f:52035** *and* **94f:52036**
Lagarias, Jeffrey C. (*with* Romano, D. S.) A polyomino tiling problem of Thurston and its configurational entropy. (English summary) **94f:52038**
Larsen, Michael *see* **Elkies, Noam; et al., 94f:52035** *and* **94f:52036**
Löck, Reinhard Basic ideas of Ammann bar grids. (English summary) **94i:52019**
Mead, D. G. (*with* Stein, S. K.) More on rectangles tiled by rectangles. **94g:52024**
Mosseri, Rémy (*with* Bailly, Francis) Configurational entropy in octagonal tiling models. (English summary) **94e:52021**
Propp, James *see* **Elkies, Noam; et al., 94f:52035** *and* **94f:52036**
Remila, Éric Sur le pavage de tore $T_{a\times b}$ par h_m et v_n. (English and French summaries) [On the tiling of the torus $T_{a\times b}$ by h_m and v_n] **94c:52016**
Romano, D. S. *see* **Lagarias, Jeffrey C., 94f:52038**
Roth, Richard L. Perfect colorings of multipatterns in the plane. (English summary) **94m:52026**
Schattschneider, Doris The fascination of tiling. (English summary) (*see* **94h:00013**)
Schlottmann, Martin *see* **Klitzing, Richard; et al., 94d:52027**
Schramm, Oded Square tilings with prescribed combinatorics. (English summary) **94h:52045**
Shephard, G. C. *see* **Grünbaum, Branko, (94h:00013)**
Stein, S. K. *see* **Mead, D. G., 94g:52024**
Uro, Justine Tessellating with regular convex polygons. **94j:52038**
Wang, S. Q. (*with* Ye, H. Q.) A new method to generate quasiperiodic lattices and Penrose tiling. (English summary) **94j:52039**
Ye, H. Q. *see* **Wang, S. Q., 94j:52039**

Items with secondary classifications in 52C20

Bandieri, Paola Contracted k-tessellations of closed surfaces. (English summary) **94k:52024**
Braß, Peter Triangulations and lattice points. (English summary) **94g:52019**
Chepanov, S. A. Classification of the partitions of a plane into equal triangles. (Russian) **94h:51039**
Dawson, Robert J. MacG. (*with* Paré, Robert) Characterizing tileorders. (English summary) **94k:06002**
Feiste, Uwe *see* **Flachsmeyer, Jürgen; et al., 94b:00007**
Flachsmeyer, Jürgen (*with* Feiste, Uwe; Manteuffel, Karl) ★ Mathematik und ornamentale Kunstformen. (German) [Mathematics and ornamental art forms] **94b:00007**
Godrèche, C. *see* **Luck, J. M.; et al., 94a:82049**
Hof, A. Some remarks on discrete aperiodic Schrödinger operators. (English summary) **94j:82007**
Janner, A. *see* **Luck, J. M.; et al., 94a:82049**
Janssen, Ted W. J. M. *see* **Luck, J. M.; et al., 94a:82049**
Luck, J. M. (*with* Godrèche, C.; Janner, A.; Janssen, Ted W. J. M.) The nature of the atomic surfaces of quasiperiodic self-similar structures. (English summary) **94a:82049**
Manteuffel, Karl *see* **Flachsmeyer, Jürgen; et al., 94b:00007**
Paré, Robert *see* **Dawson, Robert J. MacG., 94k:06002**
Radin, Charles Symmetry of tilings of the plane. (English summary) **94g:28022**
Schmitt, Peter Problems in discrete and combinatorial geometry. **94h:52002**

52C22 Tilings in n dimensions [see also 05B45, 51M20]

Abramovici, Gilles Tilings of triacontahedra. (English summary) **94j:52040**
Danzer, L. (*with* Papadopolos, Z.; Talis, A.) Full equivalence between Socolar's tilings and the (A, B, C, K)-tilings leading to a rather natural decoration. (English summary) **94d:52028**
Dress, Andreas W. M. (*with* Huson, Daniel H.; Molnár, Emil) The classification of face-transitive periodic three-dimensional tilings. (English summary) **94g:52025**
Gähler, Franz (*with* Stampfli, Peter) The dualisation method revisited: dualisation of product Laguerre complexes as a unifying framework. (English summary) **94e:52022**
Gilbert, William J. Bricklaying and the Hermite normal form. **94a:52042**
Huson, Daniel H. *see* **Dress, Andreas W. M.; et al., 94g:52025**
Kenyon, Richard Self-replicating tilings. (English summary) **94a:52043**
McMullen, Peter Quasi-periodic tilings of ordinary space. (English summary) **94b:52033**
Molnár, Emil Klassifikation der hyperbolischen Dodekaederpflasterungen von maximalen Flächentransitiven Bewegungsgruppen. (English summary) [Classification of hyperbolic dodecahedron tilings of maximal face transitive groups of motions] **94h:52046**
— *see also* **Dress, Andreas W. M.; et al., 94g:52025**
Nielsen, Mark J. On two questions concerning tilings. (English summary) **94i:52020**
Papadopolos, Z. *see* **Danzer, L.; et al., 94d:52028**
Roth, Johannes The equivalence of two face-centred icosahedral tilings with respect to local derivability. (English summary) **94d:52029**
Schlottmann, Martin Periodic and quasi-periodic Laguerre tilings. (English summary) **94d:52030**
Schulte, Egon Tilings. **94g:52026**
Senechal, Marjorie Les pavages, les quasi-cristaux et le 18e problème de Hilbert. (English and French summaries) [Tilings, quasicrystals, and Hilbert's 18th problem] **94g:52027**
Stampfli, Peter *see* **Gähler, Franz, 94e:52022**
Szabó, Sándor Cube tilings as contributions of algebra to geometry. **94f:52039**
Talis, A. *see* **Danzer, L.; et al., 94d:52028**
Tyszka, Apoloniusz On some combinatorial problems concerning partitions of a box. (English summary) **94h:52047**
Vince, Andrew Replicating tessellations. (English summary) **94e:52023**

Items with secondary classifications in 52C22

Barache, D. (*with* De Bièvre, Stephan; Gazeau, Jean-Pierre) Affine symmetry semi-groups for quasi-crystals. (English summary) **94m:82025**
Coxeter, H. S. M. Cyclotomic integers, nondiscrete tessellations, and quasicrystals. (English summary) **94b:52029**
De Bièvre, Stephan *see* **Barache, D.; et al., 94m:82025**
Gazeau, Jean-Pierre *see* **Barache, D.; et al., 94m:82025**
Hughes, Robert B. Minimum-cardinality triangulations of the d-cube for $d = 5$ and $d = 6$. (English summary) **94h:52025**
Kajikawa, Yasushi Growing icosahedra. **94f:52014**
Senechal, Marjorie Introduction to lattice geometry. **94f:11058**

52C25 Rigidity and flexibility of structures [see also 70B15]

Connelly, Robert Rigidity. **94j:52041**
— (*with* Servatius, Herman) Higher-order rigidity—what is the proper definition? (English summary) **94m:52027**
Crapo, Henry (*with* Whiteley, Walter) Autocontraintes planes et polyèdres projetés. I. Le motif de base. (English and French summaries) [Plane self stresses and projected polyhedra. I. The basic pattern] **94g:52028**
Kamiyama, Yasuhiko An elementary proof of a theorem of T. F. Havel. **94a:52044**
Recski, András (*with* Schwärzler, Werner) One-story buildings as tensegrity frameworks. III. (English summary) **94f:52040**
Schwärzler, Werner *see* **Recski, András, 94f:52040**
Servatius, Herman *see* **Connelly, Robert, 94m:52027**
Tay, Tiong Seng A new proof of Laman's theorem. (English summary) **94m:52028**
— Des charpentes tridimensionnelles génériquement dépendantes. (English and French summaries) [On generically dependent bar frameworks in space] **94h:52048**
Whiteley, Walter *see* **Crapo, Henry, 94g:52028**

53–XX Differential geometry {For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx.}

53–01 Instructional exposition (textbooks, tutorial papers, etc.)

Dodson, C. T. J. (*with* Poston, T.) ★ Tensor geometry. **94c:53001**
Isham, Chris J. ★ Modern differential geometry for physicists. **94f:53001**
Poston, T. *see* **Dodson, C. T. J., 94c:53001**
Simmonds, James G. ★ A brief on tensor analysis. (English summary) **94h:53001**
Stillwell, John ★ Geometry of surfaces. **94b:53001**
Talpaert, Yves ★ Leçons et applications de géométrie différentielle et de mécanique analytique. (French) [Lessons and applications of differential geometry and analytical mechanics] **94a:53001**
Visconti, A. ★ Introductory differential geometry for physicists. **94e:53001**

Items with secondary classifications in 53–01

Conlon, Lawrence ★ Differentiable manifolds: a first course. (English summary) **94d:58001**
Deheuvels, René ★ Tenseurs et spineurs. (French. French summary) [Tensors and spinors] **94c:53028**
(Fomenko, A. T.) *see* **Gray, Alfred, 94m:53001**
Gotay, Mark J. (*with* Isenberg, James A.) La symplectification de la science (la géométrie symplectique aux fondements de la physique et des mathématiques). [The symplectification of science (symplectic geometry and the foundations of physics and mathematics)] **94e:00011**
Gray, Alfred ★ Трубки. (Russian. Russian summary) [Tubes] **94m:53001**
Hladik, Jean ★ Le calcul tensoriel en physique. (French. French summary) [Tensor calculus in physics] **94f:53020**
Isenberg, James A. *see* **Gotay, Mark J., 94e:00011**
(Ivanov, A. O.) *see* **Gray, Alfred, 94m:53001**
(Latrémolière, Claude) *see* **Hladik, Jean, 94f:53020**
(Tuzhilin, Aleksei Avgustinovich) *see* **Gray, Alfred, 94m:53001**

53–02 Research exposition (monographs, survey articles)

Akivis, M. A. (*with* Goldberg, Vladislav V.) ★ Projective differential geometry of submanifolds. **94i:53001**
(Fomenko, A. T.) *see* **Gray, Alfred, 94m:53001**
Goldberg, Vladislav V. *see* **Akivis, M. A., 94i:53001**
Gray, Alfred ★ Трубки. (Russian. Russian summary) [Tubes] **94m:53001**
(Ivanov, A. O.) *see* **Gray, Alfred, 94m:53001**
(Tuzhilin, Aleksei Avgustinovich) *see* **Gray, Alfred, 94m:53001**
Yau, Shing-Tung Open problems in geometry. (*see* **94c:53004**)
— The current state and prospects of geometry and nonlinear differential equations. (English summary) (*see* **94j:00018**)
— Open problems in geometry. **94k:53001**

Items with secondary classifications in 53–02

Bakelman, Ilya J. (*with* Taliaferro, Steven D.) The isoperimetric problem for two-dimensional convex surfaces. **94f:53113**
Cheeger, Jeff Critical points of distance functions and applications to geometry. **94a:53075**

Dezin, A. A. ★ Многомерный анализ и дискретные модели. (Russian) [Multidimensional analysis and discrete models] **94d:00010**
Gromoll, Detlef Spaces of nonnegative curvature. **94b:53073**
Hsiang, Wu-Yi Closed minimal submanifolds in the spheres. **94d:53099**
Michor, Peter W. ★ Gauge theory for fiber bundles. **94a:53056**
Taliaferro, Steven D. *see* **Bakelman, Ilya J., 94f:53113**

53–03 Historical (must also be assigned at least one classification number from Section 01)

Berger, Marcel Riemannian manifolds: from curvature to topology, a brief historical overview. (*see* **94c:53004**)
Cartan, Élie ★ Leçons sur la géométrie des espaces de Riemann. (French) [Lessons on the geometry of Riemann spaces]
(Chern, Shiing Shen) *see* **Chern—a great geometer of the twentieth century, 94c:53004**
Nagano, Tadashi The development of the theory of symmetric spaces and differential geometry. (Japanese) **94a:53002**
Sanini, Aristide Contributions to Riemannian geometry in the work of Enrico Bompiani. (Italian. English summary) **94c:53002**
Spivak, Michael A brief report of John Milnor's brief excursions into differential geometry. **94c:53003**
(Yau, Shing-Tung) *see* **Chern—a great geometer of the twentieth century, 94c:53004**

Items listed otherwise than by author

Birthday:
Chern, Shiing Shen ★ Chern—a great geometer of the twentieth century. **94c:53004**
Chern—a great geometer of the twentieth century ★ Chern—a great geometer of the twentieth century. **94c:53004**

Items with secondary classifications in 53–03

Akivis, M. A. (*with* Rosenfeld, Boris A.) ★ Élie Cartan (1869–1951). **94f:01029**
(Cartan, Élie) *see* **Akivis, M. A., 94f:01029**
(Chern, Shiing Shen) *see* **Palais, Richard S., (94c:53004)**
(Czichowski, Günter) *see* **Lie, Sophus; et al., 94e:01034**
Engel, F. *see* **Lie, Sophus; et al., 94e:01034**
(Fritzsche, Bernd) *see* **Lie, Sophus; et al., 94e:01034**
(Goldberg, Vladislav V.) *see* **Akivis, M. A., 94f:01029**
Kreyszig, Erwin On the theory of minimal surfaces. (English summary) **94b:53021**
Lie, Sophus (*with* Study, E.; Engel, F.) ★ Beiträge zur Theorie der Differentialinvarianten. (German. German summary) [Contributions to the theory of differential invariants] **94e:01034**
Palais, Richard S. (*with* Terng, Chuu-Lian) The life and mathematics of Shiing Shen Chern. (*see* **94c:53004**)
Pier, Jean-Paul Aspects de l'évolution des mathématiques entre 1900 et 1950. [Aspects of the evolution of mathematics between 1900 and 1950] **94k:01023**
Rosenfeld, Boris A. *see* **Akivis, M. A., 94f:01029**
Study, E. *see* **Lie, Sophus; et al., 94e:01034**
Terng, Chuu-Lian *see* **Palais, Richard S., (94c:53004)**

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Bibliography:
Cartan, Élie *see* **Akivis, M. A., 94f:01029**
Biography:
Cartan, Élie *see* **Akivis, M. A., 94f:01029**

53–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 53–04

Araujo, Marcelo E. (*with* Dray, Tevian; Skea, James E. F.) Determining isometries of space-times using computer algebra. (English summary) **94c:83002**
Dray, Tevian *see* **Araujo, Marcelo E.; et al., 94c:83002**
Hsu, Lucas (*with* Kusner, Rob; Sullivan, John M.) Minimizing the squared mean curvature integral for surfaces in space forms. (English summary) **94a:53015**
Kusner, Rob *see* **Hsu, Lucas; et al., 94a:53015**
Skea, James E. F. *see* **Araujo, Marcelo E.; et al., 94c:83002**
Sullivan, John M. *see* **Hsu, Lucas; et al., 94a:53015**

53–06 Proceedings, conferences, collections, etc.

(Davis, H. Ted) *see* **Statistical thermodynamics and differential geometry of microstructured materials, 94b:53003**
(Fomenko, A. T.) *see* **Minimal surfaces, 94b:53002**
(Kowalski, Oldřich) *see* **Differential geometry and its applications, 94h:53003**
(Krupka, D.) *see* **Differential geometry and its applications, 94h:53003**
(Minakhin, V. V.) *see* **Geometry, 94f:53002**
(Nitsche, Johannes C. C.) *see* **Statistical thermodynamics and differential geometry of microstructured materials, 94b:53003**
(Shelekhov, A. M.) *see* **Webs and quasigroups, 94b:53004**
(Shiohama, Katsuhiro) *see* **Progress in differential geometry, 94m:53002**
(Sosinskiĭ, A. B.) *see* **Minimal surfaces, 94b:53002**
(Sultanov, A. Ya.) *see* **Motions in generalized spaces, 94k:53002**
(Vinberg, È. B.) *see* **Geometry, 94f:53002**

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Conference:
Differential Geometry and its Applications ★ Differential geometry and its applications. **94h:53003**
Differential geometry ★ Differential geometry. **94h:53002**
Differential geometry and its applications ★ Differential geometry and its applications. **94h:53003**
Encyclopaedia of Mathematical Sciences ★ Geometry. II. **94f:53002**
Geometry ★ Geometry. II. **94f:53002**
Meeting:
Differential Geometry ★ Differential geometry. **94h:53002**
Minimal surfaces ★ Minimal surfaces. **94b:53002**
Minneapolis, MN ★ Statistical thermodynamics and differential geometry of microstructured materials. **94b:53003**
Motions in generalized spaces ★ Движения в обобщенных пространствах. (Russian) [Motions in generalized spaces] **94k:53002**
Opava ★ Differential geometry and its applications. **94h:53003**
Progress in differential geometry ★ Progress in differential geometry. **94m:53002**
Statistical thermodynamics and differential geometry of microstructured materials ★ Statistical thermodynamics and differential geometry of microstructured materials. **94b:53003**
Turin, 1992 ★ Differential geometry. **94h:53002**
Webs and quasigroups ★ Webs and quasigroups. **94b:53004**
Workshop:
Statistical Thermodynamics and Differential Geometry of Microstructured Materials ★ Statistical thermodynamics and differential geometry of microstructured materials. **94b:53003**

Items with secondary classifications in 53–06

(Buttazzo, Giuseppe) *see* **Motion by mean curvature and related topics, 94m:00028**
(Catto, Sultan) *see* **Proceedings: Conference on Differential Geometric Methods in Theoretical Physics, 94a:00013**
(Greene, Robert E.) *see* **Differential geometry: partial differential equations on manifolds, 94a:00010** *and* **Differential geometry: geometry in mathematical physics and related topics, 94a:00011**
(Lobachevskiĭ, N. I.) *see* **Dedicated to the memory of Lobachevskiĭ, 94c:01001**
(Primrose, E.) *see* **Geometry, 94i:53038**
(Reshetnyak, Yu. G.) *see* **Geometry, 94i:53038**
(Rocha-Caridi, Alvany) *see* **Proceedings: Conference on Differential Geometric Methods in Theoretical Physics, 94a:00013**
(Shirokov, A. P.) *see* **Dedicated to the memory of Lobachevskiĭ, 94c:01001**
(Visintin, Augusto) *see* **Motion by mean curvature and related topics, 94m:00028**
(Yau, Shing-Tung) *see* **Differential geometry: partial differential equations on manifolds, 94a:00010** *and* **Differential geometry: geometry in mathematical physics and related topics, 94a:00011**

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Anniversary:
Birth of Lobachevskiĭ, N. I. ★ Памяти Лобачевского посвящается. Вып. I. (Russian) [Dedicated to the memory of Lobachevskiĭ. No. I] **94c:01001**
Conference:
Differential Geometric Methods in Theoretical Physics ★ Proceedings of the XXth International Conference on Differential Geometric Methods in Theoretical Physics. Vol. 1, 2. **94a:00013**
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Dedicated to the memory of Lobachevskiĭ ★ Памяти Лобачевского посвящается. Вып. I. (Russian) [Dedicated to the memory of Lobachevskiĭ. No. I] **94c:01001**
Differential geometry: geometry in mathematical physics and related topics ★ Differential geometry: geometry in mathematical physics and related topics. **94a:00011**
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— ★ Differential geometry: geometry in mathematical physics and related topics. **94a:00011**
Trento ★ Motion by mean curvature and related topics. **94m:00028**

53Axx Classical differential geometry

53A04 Curves in Euclidean space

Altschuler, Steven J. Shortening space curves. (English summary) **94c:53005**
Aminov, Yu. A. Curvatures of asymptotic lines in a domain embedded in E^5 of the three-dimensional Lobachevskii space. (Russian. Russian summary) **94m:53003**
Berger, Mitchell A. *see* **Evans, N. W., 94f:53003**
Carfagna D'Andrea, Antonella (*with* Romani, Giuliano) Addendum to: "An extension of the Fenchel theorem" [Geom. Dedicata **40** (1991), no. 1, 59–72; MR 92j:53001]. **94c:53006**
Cho, Kwang-Hee *see* **Kim, Dong-Soo; et al., 94h:53004**

Chung, Hei-Sun *see* **Kim, Dong-Soo; et al., 94h:53004**
Cornish, F. H. J. The total curvature of a smooth closed curve in E^n is an upper bound to the total swing of its position vector. **94k:53003**
Enomoto, Kazuyuki A generalization of the isoperimetric inequality on S^2 and flat tori in S^3. **94d:53001**
Evans, N. W. (*with* Berger, Mitchell A.) A hierarchy of linking integrals. (English summary) **94f:53003**
Gage, Michael E. Evolving plane curves by curvature in relative geometries. **94j:53001**
Geise, Gerhard (*with* Nestler, Th.) Berührkegelschnitte in Bézierdarstellung. [Osculating conics in Bézier representation] (*see* **94f:00023**)
Hartl, Johann Zerlegung der Darboux-Drehung in zwei ebene Drehungen. (English summary) [Decomposition of Darboux rotation into two plane rotations] **94b:53005**
Kim, Dong-Soo (*with* Chung, Hei-Sun; Cho, Kwang-Hee) Space curves satisfying $\tau/\kappa = as + b$. **94h:53004**
Lin, Meng Lei A note on the proof of Dupin's theorem. (Chinese. Chinese summary) **94f:53004**
Moffatt, H. K. (*with* Ricca, Renzo L.) Helicity and the Călugăreanu invariant. (English summary) **94b:53006**
Müller, Hans Robert Geschlossene Raumkurven mit Normalrissen von verschwindendem Flächeninhalt. [Closed spatial curves with normal projections of vanishing area content] **94c:53007**
Nádeník, Zbyněk Über Bertrandsche Paare und Ungleichungen für die Raumkurven. [On Bertrand pairs and inequalities for the space curves] (*see* **94f:00023**)
Nakayama, Kazuaki (*with* Wadati, Miki) Motion of curves in the plane. (English summary) **94b:53007**
Nestler, Th. *see* **Geise, Gerhard, (94f:00023)**
Ricca, Renzo L. Torus knots and polynomial invariants for a class of soliton equations. (English summary) **94d:53002**
— *see also* **Moffatt, H. K., 94b:53006**
Romani, Giuliano *see* **Carfagna D'Andrea, Antonella, 94c:53006**
Röschel, Otto Oskulierende und hyperoskulierende zylindro-konische Spiralen von Raumkurven. [Osculating and hyperosculating cylindroconical spirals of spatial curves] **94k:53004**
Rzymowski, Witold (*with* Stachura, Adam) Curves bounding maximal area. **94f:53005**
Stachura, Adam *see* **Rzymowski, Witold, 94f:53005**
Wadati, Miki *see* **Nakayama, Kazuaki, 94b:53007**
Weiner, Joel L. Isoperimetric inequalities for immersed closed spherical curves. **94d:53003**

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Boldin, A. Yu. (*with* Sharipov, R. A.) Dynamical systems that admit normal shift. (Russian. English and Russian summaries) **94m:58203**
Bourgin, Richard D. (*with* Howe, Sally E.) Shortest curves in planar regions with curved boundary. (English summary) **94j:68292**
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Chen, Xinfu The Hele-Shaw problem and area-preserving curve-shortening motions. (English summary) **94g:35225**
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Ivanov, A. O. (*with* Tuzhilin, Alekseĭ Avgustinovich) The Steiner problem for convex boundaries. I. The general case. **94g:05024a**
— (*with* Tuzhilin, Alekseĭ Avgustinovich) The Steiner problem for convex boundaries. II. The regular case. **94g:05024b**
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McIntyre, Margaret *see* **Cairns, Grant; et al., 94a:51025**
Moffatt, H. K. Relaxation under topological constraints. (English summary) **94f:76076**
Musso, Emilio On a property of curves that are stationary with respect to curvature-dependent functionals. (Italian. English and Italian summaries) **94b:58027**
Nuño Ballesteros, Juan J. On the number of triple points of the tangent developable. (English summary) **94i:58026**
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Roulier, John A. Specifying the arc length of Bézier curves. (English summary) **94a:65006**
Sapiro, Guillermo (*with* Tannenbaum, Allen) On invariant curve evolution and image analysis. (English summary) **94m:58048**
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Simeonov, R. I. Passive motions of vectors and repers. (English and Russian summaries) **94c:53022**
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Tuzhilin, Alekseĭ Avgustinovich *see* **Ivanov, A. O., 94g:05024a** *and* **94g:05024b**
Wen, Yingzhong L^2 flow of curve straightening in the plane. **94f:58028**

53A05 Surfaces in Euclidean space

Anderson, David M. *see* **Wennerström, Håkan, 94g:53002**
Andreichin, Ekaterina Infinitesimal bendings of the third order of some surfaces of revolution in the case of bushing linkages. (Bulgarian. English and Russian summaries) **94d:53004**
Baikoussis, Christos (*with* Blair, David E.) On the Gauss map of ruled surfaces. **94b:53008**
Blair, David E. *see* **Baikoussis, Christos, 94b:53008**
Chen, Bang-Yen (*with* Ishikawa, Susumu) On classification of some surfaces of revolution of finite type. (English summary) **94g:53001**
Cieślak, Waldemar On the integral formulae for ovaloids. (English and Polish summaries) **94j:53002**
Dong, Guang Chang The semi-global isometric imbedding in $\mathbf{R}^3$ of two-dimensional Riemannian manifolds with Gaussian curvature changing sign cleanly. (English summary) **94d:53005**
Ferguson, Helaman (*with* Rockwood, Alyn) Multiperiodic functions for surface design. (English summary) **94h:53005**
Ferrández, Angel (*with* Lucas, Pascual) Finite type surfaces of revolution. (English summary) **94b:53009**
Ishikawa, Susumu *see* **Chen, Bang-Yen, 94g:53001**
Ivanova-Karatopraklieva, I. Infinitesimal bendings with sliding of higher order of rotational surfaces with Sing-arbitrary curvature. **94a:53003**
— Infinitesimal bending of higher order of rotational surfaces with a planar pole. (English summary) **94b:53010**
Jüttler, Bert Zur Konstruktion rationaler Kurven und Flächen auf Quadriken. (English summary) [On the construction of rational curves and surfaces on quadric surfaces] **94c:53008**
Kamenskiĭ, N. P. Determination of a surface by the specification of the metric and vector field of a special kind. (Russian) **94a:53004**
Kantor, B. E. A continuum of closed asymptotics on a tube of negative curvature. (Russian) **94b:53011**
Karp, A. P. Conditions for the solvability of the problem of reconstructing a nonclosed two-dimensional surface in a space from its Grassmann image. (Russian) **94b:53012**
Kazak, V. V. On the quasi-well-posedness of the generalized slipping condition for a class of surfaces. (Russian) **94m:53004**
Kobotis, A. The normal bundle of a special surface. **94a:53005**
Levin, M. Kh. On a form of writing out the Gauss-Peterson-Codazzi equations. (Russian) **94a:53006**
Lin, Yi Mou Generalized pseudospherical congruences. (Chinese. English and Chinese summaries) **94k:53005**
Liu, Hui Li Translation surfaces with dependent Gaussian and mean curvature in 3-dimensional spaces. (Chinese. English and Chinese summaries) **94i:53002**
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Mendel', V. V. Infinitesimal bendings of $\mathscr{D}$-surfaces. (Russian) **94a:53007**
Nakayama, Kazuaki (*with* Wadati, Miki) The motion of surfaces. (English summary) **94e:53002**
Ogiue, Koichi (*with* Takeuchi, Nobuko) Hulahoop surfaces. (English summary) **94b:53013**
Oros, Gh. *see* **Radu, F., (94j:00025)**
Perlova, N. G. On a relationship between kth-order rigidity and the analytic nonbendability of surfaces. (Russian. Russian summary) **94f:53006**
Radu, F. (*with* Oros, Gh.) Méthode élémentaire pour l'étude des tangentes principales à la surface. (French summary) [Elementary method for the study of principal tangents to the surface] (*see* **94j:00025**)
Rakhula, M. O. Éclairage des surfaces. [Lighting of surfaces] (*see* **93d:53003**)
Rockwood, Alyn *see* **Ferguson, Helaman, 94h:53005**
Sabitov, I. Kh. On relations between infinitesimal bendings of different orders. (Russian. Russian summary) **94m:53005**
Silaev, E. V. On the indicatrix of the curvature of a two-dimensional surface on a hypersphere in a four-dimensional Euclidean space. (Russian) **94m:53006**
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Hoschek, Josef (*with* Lasser, Dieter) ★ Fundamentals of computer aided geometric design. (English summary) **94i:65003**
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Aminov, Yu. A. Three-dimensional saddle hypersurfaces with a constant second symmetric function of principal curvatures. (Russian) **94b:53015**

Andreev, P. D. Examples of complete non-simply-connected saddle hypersurfaces with a nondegenerate second quadratic form. (Russian) **94a:53008**

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— (*with* Sari, Tewfik) Surfaces minimales réglées dans l'espace de Heisenberg H_3. (English and French summaries) [Ruled minimal surfaces in the Heisenberg space H_3] **94h:53009**

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Romero, Alfonso *see* **Estudillo, Francisco J. M., 94m:53019**
Sovertkov, P. I. (*with* Gaĭdalovich, V. G.) Tractrices and pseudospheres in a pseudo-Euclidean space. (Russian) **94k:53022**
Xu, Zhi Cai Two theorems on families of parallel surfaces in three-dimensional hyperbolic spaces. (Chinese. English summary) **94j:53018**

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Aydin, A. P. *see* **Ergüt, M.; et al., 94e:53007**
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Kamenarović, Ivan Existence theorems for ruled surfaces in the Galilean space G_3. (English and Serbo-Croatian summaries) **94a:53034**
Koneva, N. P. Normal congruences with focal surfaces that are bicylinders. (Russian. English and Ukrainian summaries) **94g:53008**
Lang, Johann Bewegungsvorgänge des Flaggenraumes mit sphärischen Bahnen—ein Übertragungsprinzip. (English summary) [Motions of the flag space with spherical trajectories—a principle of transformation] **94e:53010**
— Bewegungsvorgänge des Flaggenraumes mit sphärischen Bahnen. I. Die vierparametrigen Bewegungsvorgänge. (German summary) [Motions of the flag space with spherical trajectories. I. The four-parameter motions] **94e:53009**
Röschel, Otto Zur Krümmungsverwandtschaft von Zwangläufen in affinen CK-Ebenen. II. (English summary) [On the curvature relation of one-parameter motions in affine CK planes. II] **94e:53011**
Ščurić-Čudovan, Vlasta Eine Kennzeichnung der speziellen Hyperbel der isotropen Ebene. [A characterization of the special hyperbola of the isotropic plane] **94e:53015**
Treibergs, Andrejs Constant mean curvature hypersurfaces of Minkowski space and related problems. **94c:53014**
Wan, Tom Yau-Heng (*with* Au, Thomas Kwok-Keung) Parabolic constant mean curvature spacelike surfaces. **94d:53017**

53A40 Other special differential geometries

Benz, Walter Bewegungen in der Einsteinschen Zylinderwelt. (English summary) [Motions in Einstein's cylinder universe] **94j:53019**
Birman, Graciela Silvia Total absolute curvature of curves in Lorentz manifolds. **94m:53021**
El-Ahmady, A. E. *see* **El-Ghoul, M., 94e:53014**
El-Ghoul, M. The deformation retract and topological folding of a manifold. (English summary) **94e:53013**
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Karáné, G. S. Vollisotrope Kreisschiebzykliden des Flaggenraumes. (English summary) [Cyclides of the flag space generated by translation of a fully isotropic circle] **94d:53024**
Kiotina, G. V. A quasibiflag G-structure of elliptic type. (Russian) **94a:53039**
Kostrikina, L. P. Geodesic monosystems of $(2m-1)$-planes of the symplectic space Sp_{2n-1}. (Russian) **94b:53032**
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Spitzmüller, Klaus Flächen im isotropen $S^2 \times \mathbf{R}$. (English summary) [Surfaces in isotropic $S^2 \times \mathbf{R}$] **94d:53025**
Wang, Hong^S The Gauss map and a representation formula for timelike surfaces in the 3-dimensional Minkowski space. (Chinese. Chinese summary) **94c:53027**

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Abdel-All, N. H. Isotropic orthogonal triad of line complexes. (English summary) **94a:53032**
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— Quasihyperbolic manifolds. **94f:53016**
Bekkar, M. (*with* Sari, Tewfik) Surfaces minimales réglées dans l'espace de Heisenberg $\mathbf{H}_3$. (English and French summaries) [Ruled minimal surfaces in the Heisenberg space $\mathbf{H}_3$] **94h:53009**
Husty, Manfred L. Über Polkurven von einparametrigen Bewegungsvorgängen in der isotropen Ebene. (English and Serbo-Croatian summaries) [On polar curves of one-parameter motions in the isotropic plane] **94a:53026**
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Miklyukov, V. M. Maximal tubes and bands in Minkowski space. (Russian. Russian summary) **94a:53019**
Sari, Tewfik *see* **Bekkar, M., 94h:53009**
Stamou, Georg Begleitregelflächen von Geradenkongruenzen des einfach isotropen Raumes. (English summary) [Associated ruled surfaces of rectilinear congruences in the simply isotropic space] **94b:53029**
— Über die Leitflächen konstanten Mittenabstandes von Geradenkongruenzen des einfach isotropen Raumes. (English summary) [On the surfaces of reference at constant distance from congruences of lines in the simply isotropic space] **94d:53022**
Van de Woestijne, Ignace (*with* Verstraelen, Leopold; Walrave, J.; Yaprak, S.) Minimal surfaces of translation in $\mathbf{R}_1^n$. **94a:53023**
Verstraelen, Leopold *see* **Van de Woestijne, Ignace; et al., 94a:53023**
Veselyaeva, T. Differentiable functions of a variable from a noncommutative algebra. (English summary) **94e:16009**
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53A45 Vector and tensor analysis

Deheuvels, René ★ Tenseurs et spineurs. (French. French summary) [Tensors and spinors] **94c:53028**
Hladik, Jean ★ Le calcul tensoriel en physique. (French. French summary) [Tensor calculus in physics] **94f:53020**
Iliev, B. Z. ★ Special bases for derivations of tensor algebras. I. (English and Russian summaries) **94a:53040a**
— ★ Special bases for derivations of tensor algebras. II. (English and Russian summaries) **94a:53040b**
— ★ Special bases for derivations of tensor algebras. III. (English and Russian summaries) **94a:53040c**
Jiang, Sheng Identities of Laplace type and decomposable m-vectors. (Chinese. Chinese summary) **94d:53026**
(Latrémolière, Claude) *see* **Hladik, Jean, 94f:53020**
Lippmann, Horst ★ Angewandte Tensorrechnung. (German. German summary) [Applied tensor calculus] **94f:53021**
Zund, J. D. Tensorial methods in classical differential geometry. III. Canonical leg representations. **94m:53022**

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Dodson, C. T. J. (*with* Poston, T.) ★ Tensor geometry. **94c:53001**
Iliev, B. Z. ★ Special bases for derivations of tensor algebras. I. (English and Russian summaries) **94a:53040a**
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Poston, T. *see* **Dodson, C. T. J., 94c:53001**
Shapukov, B. N. Tensor bundles. (Russian) **94f:53045**
Simmonds, James G. ★ A brief on tensor analysis. (English summary) **94h:53001**
Ton Tran Cong On Helmholtz's decomposition theorem and Poisson's equation with an infinite domain. **94b:31001**
Zhu, Zhong Nan Some results on the smallest length of a tensor. (Chinese. English and Chinese summaries) **94d:15025**

53A50 Spinor analysis

Dąbrowski, Ludwik General covariance and spinors. **94j:53020**

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Baum, Helga (*with* Friedrich, Thomas; Grunewald, Ralf; Kath, Ines) ★ Twistors and Killing spinors on Riemannian manifolds. **94a:53077**
(Bolinder, E. Folke) *see* **Riesz, Marcel, 94i:15024**
Bourguignon, Jean-Pierre Spinors, Dirac operators, and changes of metrics. (*see* **94a:00011**)
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Budinich, Paolo Conformal compactifications from spinor geometry. (English summary) **94f:81056**
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Delanghe, R. (*with* Sommen, F.; Souček, Vladimír) ★ Clifford algebra and spinor-valued functions. **94d:30084**
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Doran, Chris (*with* Lasenby, Anthony; Gull, Stephen) Grassmann mechanics, multivector derivatives and geometric algebra. (English summary) **94m:58078**
Dress, Andreas W. M. (*with* Havel, Timothy F.) Distance geometry and geometric algebra. (English summary) **94j:51022**
Dubois-Violette, Michel Complex structures and the Élie Cartan approach to the theory of spinors. (English summary) (*see* **94h:81005**)
Fedorovykh, A. M. A relativistically covariant algebra of spinors, three- and four-dimensional vectors. (Russian. English and Russian summaries) **94g:15017**
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Sommen, F. (*with* Souček, Vladimír) Monogenic differential forms. (English summary) **94h:30060**
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Deinze ★ Clifford algebras and their applications in mathematical physics. **94j:00019**

53A55 Differential invariants (local theory), geometric objects

Barrett, Eamon B. *see* **Brill, Michael H.; et al., (94d:68114)** *and* **Van Gool, Luc J.; et al., (94d:68114)**
Brill, Michael H. (*with* Barrett, Eamon B.; Payton, Paul M.) Projective invariants for curves in two and three dimensions. (English summary) (*see* **94d:68114**)
— *see also* **Van Gool, Luc J.; et al., (94d:68114)**
Brown, Christopher Numerical evaluation of differential and semi-differential invariants. (English summary) (*see* **94d:68114**)
Glizburg, V. I. Fibre bundle with fundamentally-group connection associated with ordinary differential system of higher order. (English summary) **94d:53027**
Gover, A. Rod Invariants on projective space. **94j:53021**
Krupka, Michal On the order reduction of differential invariants. (English summary) **94k:53023**
Moons, Theo *see* **Van Gool, Luc J.; et al., (94d:68114)** *and* **(94d:68114)**
Oosterlinck, André *see* **Van Gool, Luc J.; et al., (94d:68114)**
Pauwels, Eric J. *see* **Van Gool, Luc J.; et al., (94d:68114)** *and* **(94d:68114)**
Payton, Paul M. *see* **Brill, Michael H.; et al., (94d:68114)**
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Todua, G. Sh. Differential invariants of a vector bundle with a triplet connection. (Russian) **94j:53022**
Van Gool, Luc J. (*with* Moons, Theo; Pauwels, Eric J.; Oosterlinck, André) Semi-differential invariants. (English summary) (*see* **94d:68114**)
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Benalili, Mohammed Fibrés principaux Γ-naturels. [Γ-natural principal fiber bundles] **94g:58264**
Dębecki, Jacek Natural transformations of affinors into functions and affinors. **94j:58005**
El-Ahmady, A. E. *see* **El-Ghoul, M., 94e:53014**
El-Ghoul, M. (*with* El-Ahmady, A. E.) The deformation retract and topological folding of the flat space. (English summary) **94e:53014**
Kobak, Piotr Z. The structure tensor and first order natural differential operators. (English summary) **94g:58006**
Kolář, Ivan (*with* Modugno, Marco) Torsions of connections on some natural bundles. (English summary) **94i:53022**
— (*with* Michor, Peter W.; Slovák, Jan) ★ Natural operations in differential geometry. (English summary) **94a:58004**
Kurek, Jan Natural affinors on higher order cotangent bundle. (English summary) **94g:58008**
— On natural operators transforming vector fields on manifold to second iterated tangent bundle. **94g:58009**
— On the first order natural operators transforming 1-forms on manifold to linear frame bundle. **94j:58006**
Michor, Peter W. *see* **Kolář, Ivan; et al., 94a:58004**
Mikulski, Włodzimierz M. Some natural operations on vector fields. (English and Italian summaries) **94a:58005**
— Natural transformations transforming vector fields into affinors on the extended rth order tangent bundles. (English summary) **94j:58007**
— Natural differential operators between some natural bundles. (English summary) **94g:58010**
— Natural transformations of the covelocities functors into some natural bundles. (English summary) **94j:58008**
Modugno, Marco *see* **Kolář, Ivan, 94i:53022**
Shurygin, V. V. Higher-order connections and lifts of fields of geometric objects. (Russian) **94c:58005**
Slovák, Jan Natural operators on conformal manifolds. (English summary) **94m:58005**
— *see also* **Kolář, Ivan; et al., 94a:58004**

53A60 Geometry of webs [see also 14C21, 20N05]

Akivis, M. A. (*with* Shelekhov, A. M.) Contravariant theory of multidimensional three-webs. (English summary) **94d:53028**
Bogdanov, S. N. About Riemannian metric adjoined to three-web. (English summary) **94f:53022**
— Riemannian metric on a multidimensional three-web and differential-geometric structures connected with it. (Russian) **94g:53011**
Goldberg, Vladislav V. Rank problems for webs $W(d, 2, r)$. **94c:53029**
— Maximum 2-rank webs AGW(6, 3, 2). (English summary) **94i:53005**
— Curvilinear 4-webs with equal curvature forms of its 3-subwebs. (English summary) **94g:53012**
— On $(n+1)$-subwebs of an $(n+1)$-web and local algebras associated with them. **94k:53024**
Hénaut, Alain Sur la linéarisation des tissus de C^2. [On the linearization of webs in C^2] **94g:53013**
Mikheev, P. O. Nucleus of smooth loops with right monoalternative property. (English summary) **94e:53017**
Örd, Jüri The group properties of local loops and odules. (English summary) **94g:53014**
Ryzhkov, V. V. (*with* Ukhmylenko, V. N.) On webs formed by linear congruences of lines. (English summary) **94m:53023**
Sabinin, L. V. On flat geo-odular spaces. (English summary) **94f:53023**
Shelekhov, A. M. Regular automorphisms of three-webs and kernels of loops. (English summary) **94f:53024**
— A good formula for 3-web curvature tensor. (English summary) **94d:53029**
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Shestakova, M. A. On the theory of six-dimensional hexagonal three-webs. (English summary) **94d:53030**
Tabachnikov, Serge L. Geometry of Lagrangian and Legendrian 2-web. (English summary) **94j:53023**
Tolstikhina, G. A. On subquasigroups of idempotent quasigroup defined by a 3-web. (English summary) **94d:53031**
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Balk, A. (*with* Ferapontov, E. V.) Wave systems with an infinite number of invariants. (English summary) **94m:35298**
Cheshkova, M. A. On geometry of orthogonal surfaces. (English summary) **94e:53049**
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Mihuț, I. Differential forms and refinement cells of a web. (Romanian. English summary) **94f:58009**
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Utkin, Aleksei Alekseevich On connections, determined by a normal cubic on a smooth surface. (English summary) **94e:53012**

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53A99 None of the above, but in this section

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Chou, Shang-Ching (*with* Gao, Xiao Shan) Automated reasoning in differential geometry and mechanics using the characteristic set method. I. An improved version of Ritt-Wu's decomposition algorithm. (English summary) **94h:03022**
Ding, Da Fu (*with* Feng, Zu Kang) A differential geometric approach to protein structure alignment. (English summary)
Feng, Zu Kang *see* **Ding, Da Fu**
Gao, Xiao Shan *see* **Chou, Shang-Ching, 94h:03022**

53Bxx Local differential geometry

53B05 Linear and affine connections

Agashe, Nirmala S. (*with* Chafle, Mangala R.) On F-symmetric connections. **94b:53033**

Aminova, A. V. Projectively equivalent Riemannian connections. (Russian) **94b:53034**
Aringazin, A. K. (*with* Mikhailov, A. L.) Invariant tensors of a vector nonmetric space. (English summary) **94f:53025**
de Azeredo Campos, R. Conformal copies in Riemann-Cartan spaces. I. Transformations generated by the affine connection. **94a:53041**
— Conformal copies in Riemann-Cartan spaces. II. Copies related to the Lanczos potential. **94a:53042**
Barua, B. *see* **Mukhopadhyay, Salilesh**, **94i:53007**
Chafle, Mangala R. *see* **Agashe, Nirmala S.**, **94b:53033**
Edgar, S. Brian Relations between Riemann tensor (from metric) and curvature tensor (from symmetric connection). (English summary) **94i:53006**
Glizburg, V. I. On the curvature-torsion object of a Cartan connection associated with an ordinary differential system of higher order. (Russian) **94k:53025**
Grebenyuk, M. F. Connections on an $\mathscr{H}$-distribution. (Russian) **94m:53024**
Meller, J. *see* **Wybourne, B. G.**, **94a:53044**
Mikhailov, A. L. *see* **Aringazin, A. K.**, **94f:53025**
Mukhopadhyay, Salilesh (*with* Barua, B.) A note on the projective curvature tensor of a semisymmetric recurrent metric connection on a Riemannian manifold. **94i:53007**
Rybnikov, A. K. On the geometry of solutions of the equation $u_{tt} = f(t, x^i, u, u_t, u_j, u_{ik}, u_{kl})$. (Russian) **94e:53018**
Ryzhkov, V. V. Affine connections that admit tangential Levi-Civita connections. (Russian) **94a:53043**
Vogel, Walter O. S-metrische Zusammenhänge in isotropen Mannigfaltigkeiten. (English summary) [S-metric connections in isotropic manifolds] **94j:53024**
Wybourne, B. G. (*with* Meller, J.) Enumeration of the order-14 invariants formed from the Riemann tensor. (English summary) **94a:53044**

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Cheshkova, M. A. On the geometry of diffeomorphic n-surfaces in E_{2n}. (Russian) **94d:53008**
— On the geometry of a vector field on a Riemannian manifold. (Russian) **94m:53028**
Cruceanu, Vasile Centroaffine geometry of complex hypersurfaces. **94g:53024**
Deheuvels, René ★ Tenseurs et spineurs. (French. French summary) [Tensors and spinors] **94c:53028**
Ivlev, E. T. Invariant bundles and connections on them on a rigged surface of a projective space. (Russian) **94j:53016**
Kala, V. N. *see* **Negi, Darwan Singh**, **94h:53041**
Kolář, Ivan (*with* Michor, Peter W.; Slovák, Jan) ★ Natural operations in differential geometry. (English summary) **94a:58004**
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Mikheev, P. O. Pseudo-automorphisms of smooth loops. **94f:20135**
Negi, Darwan Singh (*with* Kala, V. N.) Some investigation on affine motion in Tachibana recurrent spaces. **94h:53041**
Picard, Dominique B. Statistical morphisms and related invariance properties. **94a:62007**
Slovák, Jan *see* **Kolář, Ivan; et al.**, **94a:58004**
Spitzmüller, Klaus Flächen im isotropen $S^2 \times \mathbf{R}$. (English summary) [Surfaces in isotropic $S^2 \times \mathbf{R}$] **94d:53025**

53B10 Projective connections

Berezovski, V. *see* **Mikesh, Î.**, **94c:53030**
Lovkov, A. A. Three-dimensional path spaces with projective connection with nonsolvable groups of motions of third and fourth orders. (Russian) **94m:53025**
Malakhovskiĭ, N. V. Affine connections generated by a family of collineations. (Russian) **94k:53026**
Mikesh, Î. (*with* Berezovski, V.) Geodesic mappings of affine-connected spaces onto Riemannian spaces. **94c:53030**
Popov, Yu. I. Dual theory of the regular component distribution $\mathscr{H}^r_{m,n-1}$. (Russian) **94k:53027**
Sokolovskaya, S. I. On the embedding of the torsion-free projective connection $P_{m,m+1}$ into a projective space. (Russian) **94j:53025**
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Stepanov, S. E. (*with* Tsyganok, I. I.) Vector fields in manifold with equiaffine connection. (English summary) **94h:53022**
Stolyarov, A. V. On riggings in the sense of É. Cartan and E. Bortolotti of a regular hyperband. (Russian) **94b:53035**
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Tsyganok, I. I. *see* **Stepanov, S. E.**, **94h:53022**

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Formella, S. Projective structures in Sinyukov manifolds. **94d:53075**
Hurtubise, Jacques C. (*with* Kamran, Niky) Differential invariants, double fibrations and Painlevé equations. **94h:58007**
Kamran, Niky *see* **Hurtubise, Jacques C.**, **94h:58007**
Kato, Masahide Logarithmic projective connections. **94j:53079**
Okada, Tsutomu On a representation of the projective connections of Finsler manifolds. **94c:53087**
Volkova, S. Yu. Invariant subspaces associated with the $\widetilde{\mathscr{H}}(\Lambda, L)$-distribution. (Russian) **94k:58008**

53B15 Other connections

Chung, Kyung Tae (*with* Eun, Gwang Sik) On the ME-manifold in n-$^*g$-UFT and its conformal change. (English summary) **94m:53026**
Enghiş, P. T-birecurrent affine connections. (Romanian summary) **94d:53032**
Eun, Gwang Sik *see* **Chung, Kyung Tae**, **94m:53026**
Iliev, B. Z. ★ Flat linear connections in terms of flat linear transports in tensor bundles. (English and Russian summaries) **94a:53046**
— ★ Consistency between metrics and linear transports along curves. (English and Russian summaries) **94b:53036**
— ★ Parallel transports in tensor spaces generated by derivations of tensor algebras. (English and Russian summaries) **94d:53033**
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Ma, Zhong Shui (*with* Hu, Lian; Lam, C. C.) Multivortex solutions in $(2+1)$-dimensional abelian Higgs model with a Chern-Simons term. (English summary) **94e:81194**
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— *see also* **Kubyshin, Yu. A.; et al., 94j:53060**
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— Spinorial perturbation solution to the Kähler equation in normal coordinates. (English summary) **94k:58156**
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— The role of minimal and rigid surfaces in theoretical physics. **94m:58068**
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— *see also* **Ma, Zhong Qi**, **94k:81178**
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Vickers, J. A. G. Singularities, distributional curvature and cosmic strings. (English summary) **94e:83075**
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Watabiki, Yoshiyuki *see* **Kawamoto, Noboru**, **94f:81104**
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Zalaletdinov, R. M. Towards a theory of macroscopic gravity. (English summary) **94e:83065**
Zhytnikov, V. V. Conformally invariant Lagrangians in metric-affine and Riemann-Cartan spaces. (English summary) **94k:83062**

53C99 None of the above, but in this section

Boja, N. p-adic pseudo-Riemannian manifolds. (Romanian summary) **94g:53052**
Dekster, Boris V. Double normals characterize bodies of constant width in Riemannian manifolds. **94a:53110**
Soardi, Paolo M. (*with* Yamasaki, Maretsugu) Parabolic index and rough isometries. (English summary) **94i:53066**
Yamasaki, Maretsugu *see* **Soardi, Paolo M.**, **94i:53066**

Items with secondary classifications in 53C99

Sussmann, Héctor J. Optimal control theory and piecewise analyticity of the distance function for some real-analytic sub-Riemannian metrics. **94g:49045**

54–XX General topology {For the topology of manifolds of all dimensions, see 57Nxx.}

54–01 Instructional exposition (textbooks, tutorial papers, etc.)

Baum, John D. ★ Elements of point set topology. (English summary) **94c:54001**
Cain, George L. ★ Introduction to general topology.
Engelking, Ryszard (*with* Sieklucki, Karol) ★ Topology: a geometric approach. **94d:54001**
Margalef Roig, Juan (*with* Outerelo Domínguez, Enrique) ★ Introducción a la topología. (Spanish) [Introduction to topology]
(Montesinos, José María) *see* **Margalef Roig, Juan**
(Ostaszewski, Adam J.) *see* **Engelking, Ryszard**, **94d:54001**
Outerelo Domínguez, Enrique *see* **Margalef Roig, Juan**
Patty, C. Wayne ★ Foundations of topology. **94d:54002**
Sieklucki, Karol *see* **Engelking, Ryszard**, **94d:54001**

Items with secondary classifications in 54–01

Bredon, Glen E. ★ Topology and geometry. **94d:55001**
Bröcker, Theodor ★ Analysis. I. (German. German summary) **94c:00001a**
Dydak, Jerzy (*with* Feldman, Nathan) Major theorems on compactness: a unified exposition. **94m:54062**
Feldman, Nathan *see* **Dydak, Jerzy**, **94m:54062**
Gostiaux, Bernard ★ Cours de mathématiques spéciales. Tome 2. (French. French summary) [Course on special mathematics. Vol. 2] **94h:00002b**
Herget, Charles J. *see* **Michel, Anthony N.**, **94g:00003**
Kinsey, L. Christine ★ Topology of surfaces. (English summary) **94k:57001**
Michel, Anthony N. (*with* Herget, Charles J.) ★ Applied algebra and functional analysis. **94g:00003**

54–02 Research exposition (monographs, survey articles)

Aarts, Jan M. (*with* Nishiura, T.) ★ Dimension and extensions. **94e:54001**
van Mill, Jan (*with* Reed, G. M.) Open problems in topology. **94i:54001**
Nishiura, T. *see* **Aarts, Jan M.**, **94e:54001**
Reed, G. M. *see* **van Mill, Jan**, **94i:54001**

Items with secondary classifications in 54–02

Chigogidze, A. Ch. *see* **Fedorchuk, V. V.**, **94a:57039**
Fedorchuk, V. V. (*with* Chigogidze, A. Ch.) ★ Абсолютные ретракты и бесконечномерные многообразия. (Russian. Russian summary) [Absolute retracts and infinite-dimensional manifolds] **94a:57039**

54–03 Historical (must also be assigned at least one classification number from Section 01)

Preuß, Gerhard Die Entwicklung des Raumbegriffes in der Topologie von Hausdorff bis in die Gegenwart. [The evolution of the concept of space in topology from Hausdorff up to the present] (*see* **94m:01001**)
Sagan, Hans A geometrization of Lebesgue's space-filling curve. **94i:54002**
Tsuda, Kōichi A black box left by late van Douwen inside out.

Items with secondary classifications in 54–03

Aroca Hernández-Ros, José Manuel Notes on the works of A. I. Flores in topology. (Spanish) **94f:01026c**
— *see also* **Flores, A. I.**, **94f:01026a** *and* **94f:01026b**
Flores, A. I. On the existence of n-dimensional complexes that are not topologically realizable in $\mathbf{R}_{2n}$. (Spanish) **94f:01026a**
— On n-dimensional complexes that are absolutely self-linking in $\mathbf{R}_{2n+1}$. (Spanish) **94f:01026b**
Hušek, Miroslav History and development of Hausdorff's work in extension in metric spaces. **94c:01024**
Nagata, Jun-iti A survey of dimension theory. V. **94f:54071**
Segal, Jack Borsuk's shape theory. **94f:01035**

54–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 54–04

Wilfong, Gordon Nearest neighbor problems. (English summary) **94f:68158**

54–06 Proceedings, conferences, collections, etc.

(Andima, Susan) *see* **Papers on general topology and applications**, **94m:54001**
(Császár, Á.) *see* **Topology. Theory and applications**, **94e:54002**
(Kopperman, Ralph) *see* **Papers on general topology and applications**, **94m:54001**
(Misra, Prabudh Ram) *see* **Papers on general topology and applications**, **94m:54001**
(Rudin, Mary Ellen) *see* **Papers on general topology and applications**, **94m:54001** *and* **Work of Mary Ellen Rudin**, **94m:54002**
(Tall, Franklin D.) *see* **Work of Mary Ellen Rudin**, **94m:54002**
(Todd, Aaron R.) *see* **Papers on general topology and applications**, **94m:54001**
(West, Thelma) *see* **Continuum theory and dynamical systems**, **94c:54002**

Items listed otherwise than by author

Colloquia Mathematica Societatis János Bolyai ★ Topology. Theory and applications. II. **94e:54002**
Colloquium:
  Topology ★ Topology. Theory and applications. II. **94e:54002**
Conference:
  General Topology and Applications ★ Papers on general topology and applications. **94m:54001**
  — ★ The work of Mary Ellen Rudin. **94m:54002**
Continuum theory and dynamical systems ★ Continuum theory and dynamical systems. **94c:54002**
General topology, geometric topology and related problems ★ Ippan, kikagakuteki isō to kanren suru sho mondai. (Japanese) [General topology, geometric topology and related problems] **94i:54003**
Madison, WI ★ Papers on general topology and applications. **94m:54001**
— ★ The work of Mary Ellen Rudin. **94m:54002**
Papers on general topology and applications ★ Papers on general topology and applications. **94m:54001**
Pécs ★ Topology. Theory and applications. II. **94e:54002**
Symposium:
  General Topology, Geometric Topology and Related Problems ★ Ippan, kikagakuteki isō to kanren suru sho mondai. (Japanese) [General topology, geometric topology and related problems] **94i:54003**
Topology. Theory and applications ★ Topology. Theory and applications. II. **94e:54002**
Work of Mary Ellen Rudin ★ The work of Mary Ellen Rudin. **94m:54002**

Items with secondary classifications in 54–06

(Novikov, S. P.) *see* **Topology and its applications**, **94j:00028**

Items listed otherwise than by author

Baku ★ Топология и ее приложения. (Russian) [Topology and its applications] **94j:00028**
Conference:
  Topology ★ Топология и ее приложения. (Russian) [Topology and its applications] **94j:00028**
Topology and its applications ★ Топология и ее приложения. (Russian) [Topology and its applications] **94j:00028**

54Axx Generalities

54A05 Topological spaces and generalizations (closure spaces, etc.)

Abd El-Monsef, M. E. (*with* Lashien, E. F.; Nasef, A. A.) Some topological operators via ideals. (English summary) **94b:54001**
Alas, O. T. More topological cardinal inequalities. **94i:54004**
Baran, Mehmet Separation properties in category of stack convergence spaces. (English and Turkish summaries) **94a:54001**
Gähler, Siegfried (*with* Gähler, Werner) Generalized topologies generated by distance functions. **94c:54003**
— (*with* Gähler, Werner) Discrete Cauchy spaces. **94m:54003**
Gähler, Werner Monadic topology—a new concept of generalized topology. (English summary) **94d:54003**
— *see also* **Gähler, Siegfried, 94c:54003** *and* **94m:54003**
Ganster, Maximilian (*with* Reilly, I. L.; Vamanamurthy, M. K.) Remarks on locally closed sets. (English summary) **94e:54003**
Gniłka, Stanisław ★ Extended topologies and relational systems. (English and Polish summaries) **94m:54004**
Hamlett, T. R. *see* **Janković, Dragan S., 94a:54002**
Höhle, Ulrich Almost everywhere convergence and Boolean-valued topologies. (English summary) **94b:54002**
Janković, Dragan S. (*with* Hamlett, T. R.) Compatible extensions of ideals. (Italian summary) **94a:54002**
Kurdics, János (*with* Száz, Árpád) Well-chained relator spaces. **94a:54003**
Lashien, E. F. *see* **Abd El-Monsef, M. E.; et al., 94b:54001**
Maki, Haruo *see* **Ogata, Hayao, 94j:54001a** *and* **94j:54001b**
Nasef, A. A. *see* **Abd El-Monsef, M. E.; et al., 94b:54001**
Ogata, Hayao (*with* Maki, Haruo) Bioperations on topological spaces. (English summary) **94j:54001a**
— (*with* Maki, Haruo) Corrections to the paper: "Bioperations on topological spaces". **94j:54001b**
Preuß, Gerhard Semiuniform limit spaces and semi-Cauchy spaces. **94m:54005**
Reilly, I. L. *see* **Ganster, Maximilian; et al., 94e:54003**
Šlapal, Josef Relations and topologies. **94b:54003**
Száz, Árpád *see* **Kurdics, János, 94a:54003**
Vamanamurthy, M. K. *see* **Ganster, Maximilian; et al., 94e:54003**

Items with secondary classifications in 54A05

Abd-Alla, M. A. *see* **Ramadan, A. A.; et al., 94c:54011**
Badard, R. *see* **Ramadan, A. A.; et al., 94c:54011**
Baran, Mehmet The notion of closedness in topological categories. (English summary) **94i:18008**
Ciesielski, Krzysztof (*with* Larson, Lee; Ostaszewski, Krzysztof) $\mathcal{I}$-density continuous functions. (English summary) **94f:54035**
Clementino, Maria Manuel T_0- and T_1-reflections. (English summary) **94d:18002**
— Hausdorff separation in categories. (English summary) **94m:18005**
Comfort, W. W. (*with* Remus, Dieter) Imposing pseudocompact group topologies on abelian groups. (English summary) **94g:22006**
Dikranjan, Dikran (*with* Giuli, E.) Epis in categories of convergence spaces. **94c:18002**
Giuli, E. *see* **Dikranjan, Dikran, 94c:18002**
Herrlich, Horst (*with* Hušek, Miroslav) Some open categorical problems in Top. (English summary) **94g:54008**
Hong, Sung Sa Simple extensions of frames. **94d:06028**
Hušek, Miroslav *see* **Herrlich, Horst, 94g:54008**
Idzik, Adam A selection theorem for paved spaces. (English summary) **94e:54025**
Klose, Jürgen A note on the core topology used in optimization. (English summary) **94g:49055**
Lamarche, François Stable domains are generalized topological spaces. (English summary) **94f:68126**
Larson, Lee *see* **Ciesielski, Krzysztof; et al., 94f:54035**
Leseberg, D. Superconvergence spaces and related topics. **94c:54020**
Lowen, Robert Cantor-connectedness revisited. (English summary) **94b:54064**
Lowen-Colebunders, E. (*with* Sonck, G.) Exponential objects and Cartesian closedness in the construct Prtop. (English summary) **94m:54029**
Lucchetti, Roberto (*with* Torre, Anna; Wets, Roger J.-B.) A topology for the solid subsets of a topological space. (English summary) **94d:54034**
Mala, J. (*with* Száz, Árpád) Properly topologically conjugated relators. (English summary) **94j:54014**
Mukherjee, M. N. *see* **Raychaudhuri, S.**
Namdeo, R. K. On C-closed sets and locally C-compact spaces. **94m:54055**
Nešić, Slobodan Č. A fixed point theorem for expansion mappings in metric spaces over topological semifields. (English and Serbo-Croatian summaries) **94e:54054**
Novák, Josef Convergences $\mathcal{L}_S^M$ for the group of real numbers. **94f:22002**
Ostaszewski, Krzysztof *see* **Ciesielski, Krzysztof; et al., 94f:54035**
Preuß, Gerhard Cauchy spaces and generalizations. (English summary) **94h:18006**
Ramadan, A. A. (*with* Badard, R.; Abd-Alla, M. A.) Product of smooth preproximities. (English summary) **94c:54011**
Raychaudhuri, S. (*with* Mukherjee, M. N.) On δ-almost continuity and δ-preopen sets. (English summary)
Remus, Dieter *see* **Comfort, W. W., 94g:22006**
Shelah, Saharon Number of open sets for a topology with a countable basis. (English summary) **94f:54007**
Sonck, G. *see* **Lowen-Colebunders, E., 94m:54029**
Száz, Árpád *see* **Mala, J., 94j:54014**
Torre, Anna *see* **Lucchetti, Roberto; et al., 94d:54034**
Wets, Roger J.-B. *see* **Lucchetti, Roberto; et al., 94d:54034**

54A10 Several topologies on one set (change of topology, comparison of topologies, lattices of topologies)

Abd El-Monsef, M. E. (*with* Kozae, A. M.; Abo Khadra, A. A.) Co-RS-compact topologies. (English summary) **94d:54004**
— (*with* Lashien, E. F.; Nasef, A. A.) Remarks on the *-topology. (English summary) **94c:54004**
Abo Khadra, A. A. *see* **Kozae, A. M., 94b:54004** *and* **Abd El-Monsef, M. E.; et al., 94d:54004**
Ancel, Fredric D. Topologies on $\mathbf{R}^n$ induced by smooth subsets. **94d:54005**
Andrijević, D. On SPO-equivalent topologies. (English summary) **94a:54004**
Arab, Meriem (*with* Calbrix, Jean) Sur la topologie de Fell et la topologie de la convergence. (English and French summaries) [On Fell's topology and the convergence topology] **94m:54006**
Bandyopadhyay, Chhanda *see* **Chattopadhyay, Chandan, 94d:54006**
Calbrix, Jean *see* **Arab, Meriem, 94m:54006**
Chattopadhyay, Chandan (*with* Bandyopadhyay, Chhanda) On resolvable and irresolvable spaces. (English summary) **94d:54006**
Grande, Zbigniew (*with* Natkaniec, Tomasz) On some topologies of O'Malley's type on the plane. **94c:54005**
Hitchcock, A. G. Forgetting and recalling in topology (the concept of excess structure in historical and heuristic perspective). **94i:54005**
Konstadilaki-Savvopoulou, Ch. (*with* Reilly, I. L.) Almost-l-continuous functions. (English and Serbo-Croatian summaries) **94b:54001**
Kozae, A. M. (*with* Abo Khadra, A. A.) D-equivalent topologies. (English and Arabic summaries) **94b:54004**
— *see also* **Abd El-Monsef, M. E.; et al., 94d:54004**
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— *see also* **Bella, Angelo; et al., 94a:54035**
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Matier, Julie (*with* McMaster, T. Brian M.) Minimal countable spaces and anti-properties. **94a:54010b**
— *see also* **McMaster, T. Brian M., 94a:54010a**
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54A15 Syntopogeneous structures

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— Products of syntopogenous structures on completely distributive lattices. (Chinese. English and Chinese summaries)

54A20 Convergence in general topology (sequences, filters, limits, convergence spaces, etc.)

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— Errata to: "Limits of simply continuous functions" [Real Anal. Exchange **18** (1992/1993), no. 1, 270–275; MR 94b:54038].
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54A25 Cardinality properties (cardinal functions and inequalities, discrete subsets) [see also 03Exx, 04A30] {For ultrafilters, see 54D80.}

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— (*with* Bella, Angelo) Cardinal invariants in remainders and variations of tightness. (English summary) **94a:54007**
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54A35 Consistency and independence results [see also 03E35]

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54C40 Algebraic properties of function spaces [see also 46J10]

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Byun, H. Linda (*with* Redlin, Lothar; Watson, Saleem) Local invertibility in subrings of $C^*(X)$. (English summary) **94g:54011**
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Park, Sung-Ki A characterization of function algebras. **94k:46100**
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Vechtomov, E. M. (*with* Povyshev, A. G.) Idempotent and semiprime ideals in rings of continuous functions. (Russian. English, Russian and Latvian summaries) (*see* **94b:00031**)
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54C45 C- and C^*-embedding

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Helmer, D. (*with* Pym, J. S.) Extensions of continuous maps from dense subsets of right topological groups. **94b:54045**
Kulesza, John S. Spaces which do not embed in topological groups of the same dimension. (English summary) **94e:22004**
Maltby, Gavin (*with* Swart, Johan) On filter characterisations of extendibility. (English summary) **94h:54016**
Pym, J. S. *see* **Helmer, D., 94b:54045**
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54C50 Special sets defined by functions [see also 26A21]

Sher, R. B. A complement theorem in the universal Menger compactum. (English summary) **94i:54037**

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— Errata to: "Limits of simply continuous functions" [Real Anal. Exchange **18** (1992/1993), no. 1, 270–275; MR 94b:54038].
Charatonik, Janusz J. Local connectivity, open homogeneity and hyperspaces. (English summary) **94m:54027**
Gale, Sherry L. Measure-compact spaces. **94a:28025**
Hamlett, T. R. (*with* Rose, David Alon) Remarks on some theorems of Banach, McShane, and Pettis. (English summary) **94a:54093**
Ikeda, Yoshito On weak Baire sets. (English summary) **94b:54103**
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54C55 Absolute neighborhood extensor, absolute extensor, absolute neighborhood retract (ANR), absolute retract spaces (general properties) [see also 55M15]

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54C56 Shape theory [see also 55P55, 57N25]

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— Shape theory intrinsically. (English summary) **94m:54046**
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Mardešić, Sibe Strong shape of the Stone-Čech compactification. (English summary) **94e:54023**
Morón, M. A. (*with* Ruiz del Portal, F. R.; Sanjurjo, J. M. R.) Shape invariance of N-compactifications. (English summary) **94m:54047**
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van Douwen, Eric K. Environments of closed sets, and complements in metrizable spaces. (English summary) **94h:54017**
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Günther, Bernd Comparison of the coherent pro-homotopy theories of Edwards-Hastings, Lisica-Mardešić and Günther. (English and Serbo-Croatian summaries) **94m:55009**
— The use of semisimplicial complexes in strong shape theory. (English and Serbo-Croatian summaries) **94g:55014**
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Mardešić, Sibe Strong expansions and strong shape for pairs of spaces. (English and Serbo-Croatian summaries) **94d:55024**
Morón, M. A. (*with* Ruiz del Portal, F. R.) Counting shape and homotopy types among fundamental absolute neighborhood retracts: an elementary approach. **94g:55018**
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Mrozik, Peter CE equivalence and shape equivalence of LC^n compacta. (English summary) **94b:55018**
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54C60 Set-valued maps [see also 26E25, 28B20, 47H04, 58C06]

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— (*with* Crivăţ, N.) On some convergences in multifunction spaces. (Romanian summary) **94c:54032**
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— *see also* **Latif, Abdul; et al.**
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Crivăţ, N. (*with* Bănzaru, Titu) A characterization of the quasi-continuity for multifunctions. (English summary) (*see* **94j:00025**)
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— *see also* **Choban, M. M.; et al., 94k:54039**
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54C65 Selections [see also 28B20]

Charatonik, Janusz J. On continuous selections for the hyperspace of subcontinua. **94i:54042**
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54F35 Higher-dimensional local connectedness [see also 55Mxx, 55Nxx]

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54G15 Pathological spaces

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Dydak, Jerzy Union theorem for cohomological dimension: a simple counterexample. (English summary) **94g:55001**
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Brechner, Beverly L. Irrational rotations on simply connected domains. (English summary) **94d:54081**
Gauld, D. B. (*with* Piotrowski, Zbigniew) On Volterra spaces. **94k:54070**
Pierce, Robert An example concerning disconnection numbers. (English summary) **94d:54082**
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54Hxx Connections with other structures, applications

54H05 Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets) [see also 03E15, 04A15, 26A21, 28A05]

Balcerzak, Marek On Marczewski sets and some ideals. (English summary) **94f:54075**
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Johnson, Roy A. (*with* Wajch, Eliza; Wilczyński, Władysław) Metric spaces and multiplication of Borel sets. (English summary) **94c:54072**
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54H12 Topological lattices, etc. [see also 06B30, 06F30]

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— (*with* Shahzad, Naseer) Random fixed points and approximations in random convex metric spaces. (English summary) **94j:47087**
— (*with* Shahzad, Naseer) Random fixed points of random multivalued operators on Polish spaces. **94c:60109**
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Park, Jong Yeoul (*with* Jeong, Jae Ug) Common fixed points of fuzzy mappings. (English summary)
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— (*with* Singh, Sankatha Prasad; Watson, Bruce) Some fixed point theorems for composites of acyclic maps. (English summary) **94j:47089**
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— Ekeland's variational principle and Caristi's coincidence theorem for set-valued mappings in probabilistic metric spaces. (Chinese. English and Chinese summaries) **94i:49033**
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— (*with* Cho, Yeol Je; Wang, Fan) On the existence and uniqueness problems of solutions for set-valued and single-valued nonlinear operator equations in probabilistic normed spaces. (English summary) **94m:47129**
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54H99 None of the above, but in this section

Ayerbe Toledano, José María The category-base of density. (Spanish. English and Spanish summaries)
van Mill, Jan Sierpiński's technique and subsets of **R**. **94d:54096**
Phillips, Anthony V. The topology of Roman mosaic mazes. (English summary) (*see* **94h:00013**)

Items with secondary classifications in 54H99

Baloglou, George (*with* Tracy, Phil) A problem in the open disc. (English summary) (*see* **94m:54001**)
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Dougherty, Randall (*with* Foreman, Matthew) Banach-Tarski decompositions using sets with the property of Baire. **94e:04001**
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Molchanov, V. A. A nonstandard approach to duality theory. (Russian) (*see* **94j:00017**)
Shapiro, L. B. On the homogeneity of dyadic compact Hausdorff spaces. (Russian. Russian summary) **94i:54051**
Świątkowski, Tadeusz Some properties of cross- and core-topologies on $\mathbf{R}^2$. (English and Polish summaries)
Tracy, Phil *see* **Baloglou, George, (94m:54001)**
Wehrung, Friedrich Boolean universes above Boolean models. (English summary) **94m:03063**
Zhong, Xin Min Properties of semilinear topological spaces. (Chinese. English and Chinese summaries) **94g:46016**

54J05 Nonstandard topology [see also 03H05]

Lintz, R. G. The theory of manifolds from the nondeterministic point of view. (English summary) **94e:54056**
Molchanov, V. A. Nonstandard completions of topological algebraic systems. (Russian) **94m:54100**
— Continuous convergences of mappings. (Russian) **94m:54101**
Senkevich, T. Ya. (*with* Ustinova, T. A.) Countable compactness in pseudotopological spaces in terms of nonstandard analysis. (Russian. Russian summary) (*see* **94f:00014**)
— Convergence groups in terms of nonstandard analysis. (Russian. Russian summary) (*see* **94d:00011**)
Ustinova, T. A. *see* **Senkevich, T. Ya., (94f:00014)**

Items with secondary classifications in 54J05

Chen, Xiang Dong On the paracompactness of frames. (English summary) **94e:54030**
Péraire, Yves Analyse relative. [Relative analysis] **94j:03133**
Salbany, Sergio (*with* Todorov, Todor D.) Nonstandard and standard compactifications of ordered topological spaces. (English summary) **94e:54042**
Todorov, Todor D. *see* **Salbany, Sergio, 94e:54042**

55–XX Algebraic topology

55–01 Instructional exposition (textbooks, tutorial papers, etc.)

Bredon, Glen E. ★ Topology and geometry. **94d:55001**
Husemoller, Dale ★ Fibre bundles. **94k:55001**
Pop, Ioan[1] ★ Topologie algebrică. (Romanian) [Algebraic topology] **94i:55001**
Vick, James W. ★ Homology theory. (English summary) **94i:55002**
Wall, C. T. C. ★ A geometric introduction to topology. (English summary) **94j:55001**

Items with secondary classifications in 55–01

Engelking, Ryszard (*with* Sieklucki, Karol) ★ Topology: a geometric approach. **94d:54001**
Kinsey, L. Christine ★ Topology of surfaces. (English summary) **94k:57001**
(Ostaszewski, Adam J.) *see* **Engelking, Ryszard, 94d:54001**
Pavel, Monique ★ Fundamentals of pattern recognition. (English summary) **94c:68160**
Sieklucki, Karol *see* **Engelking, Ryszard, 94d:54001**

55–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 55–02

Allday, Christopher (*with* Puppe, V.) ★ Cohomological methods in transformation groups. (English summary) **94g:55009**
Husemoller, Dale ★ Fibre bundles. **94k:55001**
Puppe, V. *see* **Allday, Christopher, 94g:55009**

55–03 Historical (must also be assigned at least one classification number from Section 01)

Hilton, Peter John Die Euler-Poincaré-Charakteristik und ihre topologische Weiterentwicklung. (German summary) [The Euler-Poincaré characteristic and its further topological development]
Stasheff, Jim Milnor's work from the perspective of algebraic topology. **94a:55001**

Items with secondary classifications in 55–03

Adams, J. Frank ★ The selected works of J. Frank Adams. Vol. I. (English summary) **94d:01095a**
— ★ The selected works of J. Frank Adams. Vol. II. (English summary) **94d:01095b**
Aroca Hernández-Ros, José Manuel Notes on the works of A. I. Flores in topology. (Spanish) **94f:01026c**
— *see also* **Flores, A. I., 94f:01026a** *and* **94f:01026b**
(Borsuk, Karol) *see* **Hilton, Peter John, 94f:01033**
Brigaglia, Aldo The harpoon of algebraic topology: abelian varieties and Riemannian matrices in Italian algebraic geometry (1915–1935). (Italian) **94k:01035**
Flores, A. I. On the existence of n-dimensional complexes that are not topologically realizable in $\mathbf{R}_{2n}$. (Spanish) **94f:01026a**
— On n-dimensional complexes that are absolutely self-linking in $\mathbf{R}_{2n+1}$. (Spanish) **94f:01026b**
Hansen, Vagn Lundsgaard Jakob Nielsen (1890–1959). **94j:57002**
Hilton, Peter John On some contributions of Karol Borsuk to homotopy theory. **94f:01033**
(Keller, Ott-Heinrich) *see* **Stammler, Ludwig**
(May, J. P.) *see* **Adams, J. Frank, 94d:01095a** *and* **94d:01095b**
(Nielsen, Jakob) *see* **Hansen, Vagn Lundsgaard, 94j:57002**
Pier, Jean-Paul Aspects de l'évolution des mathématiques entre 1900 et 1950. [Aspects of the evolution of mathematics between 1900 and 1950] **94k:01023**
Postnikov, M. M. Pages of a mathematical autobiography (1942–1953). (*see* **94j:01001**)
Segal, Jack Borsuk's shape theory. **94f:01035**
Stammler, Ludwig (*with* Vogel, Wolfgang) Ott-Heinrich Keller (1906–1990). (German)
(Thomas, Charles B.) *see* **Adams, J. Frank, 94d:01095a** *and* **94d:01095b**
Vogel, Wolfgang *see* **Stammler, Ludwig**
West, James Borsuk's influence on infinite-dimensional topology. **94f:01034**

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Biography:
Adams, John Frank *see* **Adams, J. Frank, 94d:01095a** *and* **94d:01095b**
Postnikov, M. M. *see* **Postnikov, M. M., (94j:01001)**

55–06 Proceedings, conferences, collections, etc.

(Adams, Frank) *see* **Symposium: Algebraic Topology, 94b:55001**
(McCord, Christopher K.) *see* **Nielsen theory and dynamical systems, 94d:55002**
(Ray, N.) *see* **Symposium: Algebraic Topology, 94b:55001**
(Walker, Grant) *see* **Symposium: Algebraic Topology, 94b:55001**

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Conference:
Nielsen Theory and Dynamical Systems ★ Nielsen theory and dynamical systems. **94d:55002**
Contemporary Mathematics ★ Nielsen theory and dynamical systems. **94d:55002**
Manchester ★ Adams Memorial Symposium on Algebraic Topology. 2. **94b:55001**
Nielsen theory and dynamical systems ★ Nielsen theory and dynamical systems. **94d:55002**
South Hadley, MA ★ Nielsen theory and dynamical systems. **94d:55002**
Symposium:
Algebraic Topology ★ Adams Memorial Symposium on Algebraic Topology. 2. **94b:55001**

Items with secondary classifications in 55–06

(Bödigheimer, Carl-Friedrich) *see* **Mapping class groups and moduli spaces of Riemann surfaces, 94c:14022**
(Császár, Á.) *see* **Topology. Theory and applications, 94e:54002**
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Baku ★ Топология и ее приложения. (Russian) [Topology and its applications] **94j:00028**
Colloquia Mathematica Societatis János Bolyai ★ Topology. Theory and applications. II. **94e:54002**
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Topology ★ Topology. Theory and applications. II. **94e:54002**
Conference:
Connections between Topology and Representation Theory ★ Topology and representation theory. **94i:57001**
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Contemporary Mathematics ★ Mapping class groups and moduli spaces of Riemann surfaces. **94c:14022**
— ★ Topology and representation theory. **94i:57001**
Evanston, IL ★ Topology and representation theory. **94i:57001**
Göttingen ★ Mapping class groups and moduli spaces of Riemann surfaces. **94c:14022**
Mapping class groups and moduli spaces of Riemann surfaces ★ Mapping class groups and moduli spaces of Riemann surfaces. **94c:14022**
Pécs ★ Topology. Theory and applications. II. **94e:54002**
Seattle, WA ★ Mapping class groups and moduli spaces of Riemann surfaces. **94c:14022**
Topology and its applications ★ Топология и ее приложения. (Russian) [Topology and its applications] **94j:00028**
Topology and representation theory ★ Topology and representation theory. **94i:57001**
Topology. Theory and applications ★ Topology. Theory and applications. II. **94e:54002**
Workshop:
Mapping Class Groups and Moduli Spaces of Riemann Surfaces ★ Mapping class groups and moduli spaces of Riemann surfaces. **94c:14022**

55Mxx Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx.}

55M05 Duality

Items with secondary classifications in 55M05

Bacry, Henri Duals of crystallographic groups. Band and quasi-band representations. (English summary) **94e:20063**

55M10 Dimension theory [see also 54F45]

Deo, Satya Cohomology projective spaces of finite cohomological dimension need not be finitistic. (English summary) **94c:55001**
Dranishnikov, A. N. (*with* Repovš, D.; Shchepin, E. V.) On the failure of the Urysohn-Menger sum formula for cohomological dimension. (English summary) **94f:55001**
— (*with* Repovš, D.; Shchepin, E. V.) On approximation and embedding problems for cohomological dimension. (English summary) **94m:55001**
Dydak, Jerzy (*with* Walsh, John J.) Complexes that arise in cohomological dimension theory: a unified approach. (English summary) **94d:55003**
— (*with* Walsh, John J.) Infinite-dimensional compacta having cohomological dimension two: an application of the Sullivan conjecture. **94b:55002**
— Compactifications and cohomological dimension. (English summary) **94c:55002**
— Union theorem for cohomological dimension: a simple counterexample. (English summary) **94g:55001**
Karinskiĭ, A. I. On the cohomological dimension of the Stone-Čech compactification. (Russian. Russian summary) **94a:55002**
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Shchepin, E. V. *see* **Dranishnikov, A. N.; et al., 94f:55001** *and* **94m:55001**
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Items with secondary classifications in 55M10

Chigogidze, A. Ch. *see* **Fedorchuk, V. V., 94a:57039**
Dranishnikov, A. N. Stable cohomotopy dimension and weakly infinite-dimensional spaces. (English summary) **94c:54064**
Fedorchuk, V. V. (*with* Chigogidze, A. Ch.) ★ Абсолютные ретракты и бесконечномерные многообразия. (Russian. Russian summary) [Absolute retracts and infinite-dimensional manifolds] **94a:57039**
Gladdines, Helma (*with* van Mill, Jan) Hyperspaces of infinite-dimensional compacta. (English summary) **94d:57046**
Johnson, Robert A. *see* **McAuley, L. F., 94i:57034**
McAuley, L. F. (*with* Johnson, Robert A.) Generating cellular decompositions of E^3 and the nonexistence of certain finite-to-one mappings. **94i:57034**
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Pasynkov, B. A. A factorization theorem for the cohomological dimensions of mappings. (Russian. Russian summary) **94g:54024**

55M15 Absolute neighborhood retracts [see also 54C55]

Items with secondary classifications in 55M15

Krupski, Paweł On the disjoint $(0, n)$-cells property for homogeneous ANRs. (English summary) **94i:54038**

55M20 Fixed points and coincidences [see also 54H25]

Alsedà i Soler, Lluís (*with* Baldwin, S.; Llibre, Jaume; Swanson, Richard C.; Szlenk, W.) Torus maps and Nielsen numbers. (English summary) (*see* **94d:55002**)
Avramescu, Cezar Une démonstration élémentaire du théorème de Brouwer. [An elementary proof of Brouwer's theorem]
Baldwin, S. *see* **Alsedà i Soler, Lluís; et al., (94d:55002)**
Bartsch, Thomas On the existence of Borsuk-Ulam theorems. **94d:55004**
Boucher, Kenneth (*with* Brown, Morton; Slaminka, Edward E.) A Nielsen-type theorem for area-preserving homeomorphisms of the two disc. (English summary) **94e:55001**
Brown, Morton *see* **Boucher, Kenneth; et al., 94e:55001**
Brown, Robert F. Wecken properties for manifolds. **94e:55002**
— (*with* Sanderson, Brian J.) Fixed points of boundary-preserving maps of surfaces. (English summary) **94b:55003**
Cai, Yue Jiang *see* **Fu, Ben Lu; et al.**
Chang, Hsiu Yü Borsuk's antipodal and fixed-point theorems for set-valued maps. (English summary) **94i:55003**
Dimovski, Dončo One-parameter fixed point indices for periodic orbits. (English summary) **94i:55004**
Dobreńko, Roman (*with* Jezierski, Jerzy) The coincidence Nielsen number on nonorientable manifolds. (English summary) **94d:55005**
Fu, Ben Lu (*with* Cai, Yue Jiang; Li, De Gui) A further discussion on classes of general H-fixed points and a condition for $N(f) = N(f, H)$. (Chinese. English and Chinese summaries)
Gilman, Jane Recent developments in Nielsen theory and discrete groups. (English summary) **94i:55005**
Göhde, Dietrich A remark on self-maps of n-spheres. **94h:55001**
Heath, Philip R. A Nielsen type number for fibre preserving maps. (English summary) **94i:55006**
Izydorek, Marek (*with* Rybicki, Sławomir) On parametrized Borsuk-Ulam theorem for free Z_p-action. **94d:55006**
Jezierski, Jerzy The Nielsen coincidence theory on topological manifolds. (English summary) **94j:55002**
— *see also* **Dobreńko, Roman, 94d:55005**
Jiang, Bo Ju Periodic orbits on surfaces via Nielsen fixed point theory. (English summary) **94b:55004**
— (*with* Wang, Shi Cheng) Lefschetz numbers and Nielsen numbers for homeomorphisms on aspherical manifolds. (English summary) **94b:55005**
— Nielsen theory for periodic orbits and applications to dynamical systems. (English summary) **94k:55002**
Kelly, Michael R. The relative Nielsen number and boundary-preserving surface maps. (English summary) **94h:55002**
Kulpa, W. A theorem on potentially fixed points. (English summary) **94f:55002**
Kuperberg, Krystyna M. (*with* Kuperberg, Włodzimierz; Minc, Piotr; Reed, Coke S.) Examples related to Ulam's fixed point problem. **94e:55003**
Kuperberg, Włodzimierz *see* **Kuperberg, Krystyna M.; et al., 94e:55003**
Li, De Gui *see* **Fu, Ben Lu; et al.**
Llibre, Jaume Lefschetz numbers for periodic points. (English summary) **94g:55002**
— (*with* Swanson, Richard C.) Periodic points for transversal maps on surfaces. (English summary) **94h:55003**
— *see also* **Alsedà i Soler, Lluís; et al., (94d:55002)**
Makeev, V. V. Solution of the Knaster problem for polynomials of second degree on a two-dimensional sphere. (Russian) **94d:55007**
Mann, L. N. Periodic points and invariant orbits of equivariant maps. **94a:55003**
Matsuoka, Takashi[1] The Burau representation of the braid group and the Nielsen-Thurston classification. (English summary) **94k:55003**
McCord, Christopher K. Computing Nielsen numbers. (English summary) **94e:55004**
— Nielsen numbers of homotopically periodic maps on infrasolvmanifolds. (English summary) **94h:55004**
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Schirmer, Helga A survey of relative Nielsen fixed point theory. (English summary) **94f:55003**
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55N22 Bordism and cobordism theories, formal group laws [see also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90]

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55Q05 Homotopy groups, general; sets of homotopy classes

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55Q45 Stable homotopy of spheres

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55Q70 Homotopy groups of special types [see also 55N05, 55N07]

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55Rxx Fiber spaces and bundles [see also 18F15, 32Lxx, 46M20, 57R20, 57R22, 57R25]

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Blanc, David A. Abelian Π-algebras and their projective dimension. (English summary) **94j:55016**
Günther, Bernd The use of semisimplicial complexes in strong shape theory. (English and Serbo-Croatian summaries) **94g:55014**
Hardie, K. A. (*with* Vermeulen, J. J. C.) Homotopy theory of finite and locally finite T_0 spaces. (English summary) **94j:55014**
Heggie, Murray Homotopy cofibrations in CAT. (French summary) **94d:18021**
Moerdijk, Ieke (*with* Svensson, Jan-Alve) Algebraic classification of equivariant homotopy 2-types. I. (English summary) **94j:55013**
Oda, Nobuyuki Pairings of homotopy sets over and under B. (English summary) **94j:55015**
Retakh, V. S. Lie-Massey brackets and n-homotopically multiplicative maps of differential graded Lie algebras. (English summary) **94g:55023**
Smirnov, V. A.[2] Secondary operations in the homology of the operad E. (Russian. Russian summary) **94b:55013**
Svensson, Jan-Alve *see* **Moerdijk, Ieke, 94j:55013**
Vermeulen, J. J. C. *see* **Hardie, K. A., 94j:55014**

55U40 Topological categories

Kříž, Igor p-adic homotopy theory. (English summary) **94k:55029**

Items with secondary classifications in 55U40

Mielke, M. V. Topos based homology theory. (English summary) **94e:55010**

55U99 None of the above, but in this section

Items with secondary classifications in 55U99

Dwyer, William G. (*with* Kan, D. M.) Homology and cohomology of Π-algebras. **94h:55027**
Gómez, Francisco Algebraic characteristic classes for idempotent matrices. (English summary) **94a:14020**
Heggie, Murray Homotopy colimits in presheaf categories. (French summary) **94g:18005**
Henn, Hans-Werner (*with* Lannes, Jean; Schwartz, Lionel) The categories of unstable modules and unstable algebras over the Steenrod algebra modulo nilpotent objects. **94i:55024**
Kan, D. M. *see* **Dwyer, William G., 94h:55027**
Lannes, Jean *see* **Henn, Hans-Werner; et al., 94i:55024**
Morel, Fabien Quelques remarques sur la cohomologie modulo p continue des pro-p-espaces et les résultats de J. Lannes concernant les espaces fonctionnels hom(BV, X). (English summary) [Some remarks on the continuous cohomology modulo p of pro-p-spaces and results of J. Lannes concerning the functional spaces hom(BV, X)] **94d:55027**
Neeman, Amnon The Brown representability theorem and phantomless triangulated categories. **94c:18012**
Schwartz, Lionel *see* **Henn, Hans-Werner; et al., 94i:55024**
Shimakawa, Kazuhisa Mackey systems of monoidal categories and G-spectra. **94b:55016**

57–XX Manifolds and cell complexes {For complex manifolds, see 32C10.}

57–01 Instructional exposition (textbooks, tutorial papers, etc.)

Kinsey, L. Christine ★ Topology of surfaces. (English summary) **94k:57001**

Items with secondary classifications in 57–01

Bredon, Glen E. ★ Topology and geometry. **94d:55001**
Conlon, Lawrence ★ Differentiable manifolds: a first course. (English summary) **94d:58001**
Engelking, Ryszard (*with* Sieklucki, Karol) ★ Topology: a geometric approach. **94d:54001**
Kassel, Christian Invariants des nœuds, catégories tensorielles et groupes quantiques. [Invariants for knots, tensor categories and quantum groups] **94d:57017**
(Ostaszewski, Adam J.) *see* **Engelking, Ryszard, 94d:54001**
Sieklucki, Karol *see* **Engelking, Ryszard, 94d:54001**
Stillwell, John ★ Geometry of surfaces. **94b:53001**
— ★ Classical topology and combinatorial group theory. **94a:57001**
Vick, James W. ★ Homology theory. (English summary) **94i:55002**

57–02 Research exposition (monographs, survey articles)

Akbulut, Selman (*with* King, Henry Churchill) ★ Topology of real algebraic sets. **94m:57001**
— Lectures on real algebraic spaces. **94b:57001**
(Baum, Paul) *see* **Hirzebruch, Friedrich; et al., 94d:57001**
Berger, Thomas *see* **Hirzebruch, Friedrich; et al., 94d:57001**
Hirzebruch, Friedrich (*with* Berger, Thomas; Jung, Rainer) ★ Manifolds and modular forms. **94d:57001**
Jung, Rainer *see* **Hirzebruch, Friedrich; et al., 94d:57001**
King, Henry Churchill *see* **Akbulut, Selman, 94m:57001**
Madsen, Ib (*with* Tornehave, Jørgen) ★ Introduktion til algebraisk topologi, differentialformer og karakteristiske klasser. 1. (Danish) [Introduction to algebraic topology, differential forms and characteristic classes. 1]
(Minakhin, V. V.) *see* **Sharko, V. V., 94j:57001**
Sharko, V. V. ★ Functions on manifolds. **94j:57001**
(Skoruppa, Nils-Peter) *see* **Hirzebruch, Friedrich; et al., 94d:57001**
Tornehave, Jørgen *see* **Madsen, Ib**

Items with secondary classifications in 57–02

Allday, Christopher (*with* Puppe, V.) ★ Cohomological methods in transformation groups. (English summary) **94g:55009**
Birman, Joan S. On the work of Vaughan F. R. Jones [MR 93b:01035]. (*see* **94d:01001**)
— New points of view in knot theory. **94b:57007**
Freedman, Michael H. (*with* Quinn, Frank) ★ Topology of 4-manifolds. **94b:57021**
(Jones, Vaughan F. R.) *see* **Birman, Joan S., (94d:01001)**
Puppe, V. *see* **Allday, Christopher, 94g:55009**
Quinn, Frank *see* **Freedman, Michael H., 94b:57021**

57–03 Historical (must also be assigned at least one classification number from Section 01)

Hansen, Vagn Lundsgaard Jakob Nielsen (1890–1959). **94j:57002**
(Nielsen, Jakob) *see* **Hansen, Vagn Lundsgaard, 94j:57002**
Sondow, Jonathan An aroma of paradox and audacity: Milnor's work in differential topology. **94h:57001**

Items with secondary classifications in 57–03

Aroca Hernández-Ros, José Manuel Notes on the works of A. I. Flores in topology. (Spanish) **94f:01026c**
— *see also* **Flores, A. I., 94f:01026a** *and* **94f:01026b**
Brown, Donald Jerome *see* **Williams, R. F.; et al., 94m:00011**
Flores, A. I. On the existence of n-dimensional complexes that are not topologically realizable in $\mathbf{R}_{2n}$. (Spanish) **94f:01026a**
— On n-dimensional complexes that are absolutely self-linking in $\mathbf{R}_{2n+1}$. (Spanish) **94f:01026b**
Hemion, Geoffrey ★ The classification of knots and 3-dimensional spaces. (English summary) **94g:57015**
Holmes, Philip J. *see* **Williams, R. F.; et al., 94m:00011**
Karp, D. *see* **Williams, R. F.; et al., 94m:00011**
(Keller, Ott-Heinrich) *see* **Stammler, Ludwig**
Lanford, Oscar E., III *see* **Williams, R. F.; et al., 94m:00011**
Peixoto, M. M. *see* **Williams, R. F.; et al., 94m:00011**
Smale, Stephen The story of the higher-dimensional Poincaré conjecture (what actually happened on the beaches of Rio). (*see* **94f:00026**)
Stammler, Ludwig (*with* Vogel, Wolfgang) Ott-Heinrich Keller (1906–1990). (German)
Takens, Floris The work of Professor Sir Christopher Zeeman FRS.

Thom, René *see* **Williams, R. F.; et al., 94m:00011**
Vogel, Wolfgang *see* **Stammler, Ludwig**
West, James Borsuk's influence on infinite-dimensional topology. **94f:01034**
Williams, R. F. (*with* Karp, D.; Brown, Donald Jerome; Lanford, Oscar E., III; Holmes, Philip J.; Thom, René; Zeeman, E. Christopher; Peixoto, M. M.; et al.) Final panel. **94m:00011**
Zeeman, E. Christopher *see* **Williams, R. F.; et al., 94m:00011** *and* **Takens, Floris**

57–06 Proceedings, conferences, collections, etc.

(Arraut, José Luis) *see* **Differential topology, foliations, and group actions, 94j:57003**
(Baadhio, Randy A.) *see* **Quantum topology, 94m:57002**
(Friedlander, Eric M.) *see* **Topology and representation theory, 94i:57001**
(Hurder, Steven) *see* **Differential topology, foliations, and group actions, 94j:57003**
(Kauffman, Louis H.) *see* **Quantum topology, 94m:57002**
(Mahowald, Mark E.) *see* **Topology and representation theory, 94i:57001**
(Moreira dos Santos, Nathan) *see* **Differential topology, foliations, and group actions, 94j:57003**
(Schweitzer, Paul A.) *see* **Differential topology, foliations, and group actions, 94j:57003**

Items listed otherwise than by author

Conference:
Connections between Topology and Representation Theory ★ Topology and representation theory. **94i:57001**
Contemporary Mathematics ★ Topology and representation theory. **94i:57001**
— ★ Differential topology, foliations, and group actions. **94j:57003**
Differential topology, foliations, and group actions ★ Differential topology, foliations, and group actions. **94j:57003**
Evanston, IL ★ Topology and representation theory. **94i:57001**
Quantum topology ★ Quantum topology. **94m:57002**
Rio de Janeiro ★ Differential topology, foliations, and group actions. **94j:57003**
Topology and representation theory ★ Topology and representation theory. **94i:57001**
Workshop:
Topology ★ Differential topology, foliations, and group actions. **94j:57003**

Items with secondary classifications in 57–06

(Bödigheimer, Carl-Friedrich) *see* **Mapping class groups and moduli spaces of Riemann surfaces, 94c:14022**
(Borowiec, Andrzej) *see* **Infinite-dimensional geometry in physics, 94b:00039**
(Császár, Á.) *see* **Topology. Theory and applications, 94e:54002**
(Gielerak, Roman) *see* **Infinite-dimensional geometry in physics, 94b:00039**
(Hain, Richard M.) *see* **Mapping class groups and moduli spaces of Riemann surfaces, 94c:14022**
(Herman, Richard H.) *see* **Operator algebras, mathematical physics, and low-dimensional topology, 94h:46001**
(Novikov, S. P.) *see* **Topology and its applications, 94j:00028**
(Osborn, Hugh) *see* **Low-dimensional topology and quantum field theory, 94i:00014**
(Tanbay, Betül) *see* **Operator algebras, mathematical physics, and low-dimensional topology, 94h:46001**

Items listed otherwise than by author

Baku ★ Топология и ее приложения. (Russian) [Topology and its applications] **94j:00028**
Cambridge ★ Low-dimensional topology and quantum field theory. **94i:00014**
Colloquia Mathematica Societatis János Bolyai ★ Topology. Theory and applications. II. **94e:54002**
Colloquium:
Topology ★ Topology. Theory and applications. II. **94e:54002**
Conference:
Topology ★ Топология и ее приложения. (Russian) [Topology and its applications] **94j:00028**
Contemporary Mathematics ★ Mapping class groups and moduli spaces of Riemann surfaces. **94c:14022**
Göttingen ★ Mapping class groups and moduli spaces of Riemann surfaces. **94c:14022**
Infinite-dimensional geometry in physics ★ Infinite-dimensional geometry in physics. **94b:00039**
Istanbul ★ Operator algebras, mathematical physics, and low-dimensional topology. **94h:46001**
Karpacz ★ Infinite-dimensional geometry in physics. **94b:00039**
Low-dimensional topology and quantum field theory ★ Low-dimensional topology and quantum field theory. **94i:00014**
Mapping class groups and moduli spaces of Riemann surfaces ★ Mapping class groups and moduli spaces of Riemann surfaces. **94c:14022**
NATO Advanced Research Workshop:
Low-dimensional Topology and Quantum Field Theory ★ Low-dimensional topology and quantum field theory. **94i:00014**
Operator Algebras, Mathematical Physics, and Low-dimensional Topology ★ Operator algebras, mathematical physics, and low-dimensional topology. **94h:46001**
Operator algebras, mathematical physics, and low-dimensional topology ★ Operator algebras, mathematical physics, and low-dimensional topology. **94h:46001**
Pécs ★ Topology. Theory and applications. II. **94e:54002**
Research related to the deformation of knots ★ Musubime no henkei ni kan suru kenkyū. (Japanese) [Research related to the deformation of knots] **94d:57031**
School:
Theoretical Physics ★ Infinite-dimensional geometry in physics. **94b:00039**
Seattle, WA ★ Mapping class groups and moduli spaces of Riemann surfaces. **94c:14022**
Symposium:
Research Related to the Deformation of Knots ★ Musubime no henkei ni kan suru kenkyū. (Japanese) [Research related to the deformation of knots] **94d:57031**
Topology and its applications ★ Топология и ее приложения. (Russian) [Topology and its applications] **94j:00028**
Topology. Theory and applications ★ Topology. Theory and applications. II. **94e:54002**
Workshop:
Mapping Class Groups and Moduli Spaces of Riemann Surfaces ★ Mapping class groups and moduli spaces of Riemann surfaces. **94c:14022**

57Mxx Low-dimensional topology

57M05 Fundamental group, presentations, free differential calculus

González-Acuña, F. (*with* Litherland, R.; Whitten, Wilbur) Co-Hopficity of Seifert-bundle groups. **94c:57001**
Jones, Kerry N. A norm on the fundamental group of non-Haken 3-manifolds. **94b:57002**
Kim, Dae Kyung (*with* Song, Hyun-Jong) On the boundary operator ∂_3 of period 4-groups. **94m:57003**
Klassen, Eric P. Representations in SU(2) of the fundamental groups of the Whitehead link and of doubled knots. (English summary) **94d:57002**
Litherland, R. *see* **González-Acuña, F.; et al., 94c:57001**
Morita, Shigeyuki Abelian quotients of subgroups of the mapping class group of surfaces. **94d:57003**
Poénaru, V. (*with* Tanasi, Corrado) Hausdorff combing of groups and π_1^∞ for universal covering spaces of closed 3-manifolds. **94k:57002**
— (*with* Tanasi, Corrado) k-weakly almost convex groups and $\pi_1^\infty \widetilde{M}^3$. (English summary) **94k:57003**
Song, Hyun-Jong *see* **Kim, Dae Kyung, 94m:57003**
Tanasi, Corrado *see* **Poénaru, V., 94k:57002** *and* **94k:57003**
Whitten, Wilbur *see* **González-Acuña, F.; et al., 94c:57001**

Items with secondary classifications in 57M05

Bántay, P. Higher genus characters of orbifolds. **94g:57019**
Bozhüyük, M. E. On representations of the group of trefoil knot. **94m:57009**
Brown, Kenneth S. The geometry of finitely presented infinite simple groups. (English summary) **94f:20059**
Brownstein, Alan (*with* Lee, Ronnie) Cohomology of the group of motions of n strings in 3-space. **94k:20073**
Cooper, Daryl (*with* Long, D. D.) Derivative varieties and the pure braid group. **94b:57003**
Curtis, Cynthia L. Generalized Casson invariants for SO(3), U(2), Spin(4), and SO(4). (English summary) **94g:57020**
Dicks, Warren (*with* Ventura, Enric) Irreducible automorphisms of growth rate one. **94i:20047**
Floreanini, Roberto (*with* Vinet, Luc) q-difference realizations of quantum algebras. (English summary) **94j:81106**
Frohman, Charles (*with* Long, D. D.) Casson's invariant and surgery on knots. (English summary) **94a:57012**
— Unitary representations of knot groups. **94g:57003**
Fujita, G. A splicing formula for Casson-Walker's invariant. **94h:57026**
Fukuhara, Shinji Invariants of equivalence classes of plats. (English summary) **94i:57009**
Gan, Dan Yan Generalization of the notion of fundamental group. (English summary) **94k:55023**
(Ghys, Étienne) *see* **Hyperbolic groups in the theory of Mikhael Gromov, 94m:53060**
(Grigorchuk, R. I.) *see* **Hyperbolic groups in the theory of Mikhael Gromov, 94m:53060**
(de la Harpe, Pierre) *see* **Hyperbolic groups in the theory of Mikhael Gromov, 94m:53060**
Heusener, Michael $SO_3(\mathbf{R})$-representation curves for two-bridge knot groups. **94m:57016**
Howie, James Corrigendum: "The quotient of a free product of groups by a single high-powered relator. I, II" [Proc. London Math. Soc. (3) **59** (1989), no. 3, 507–540; MR 90j:20055; Proc. London Math. Soc. (3) **61** (1990), no. 1, 33–62; MR 91d:20033]. **94b:20032**
Kong, T. Y. (*with* Roscoe, A. W.; Rosenfeld, A.) Concepts of digital topology. (English summary) **94a:68140**
Kotschick, D. On connected sum decompositions of algebraic surfaces and their fundamental groups. **94h:57039**
(Kurchanov, P. F.) *see* **Hyperbolic groups in the theory of Mikhael Gromov, 94m:53060**
Lee, Kyung Bai (*with* Shin, Joon Kook; Yokura, Shoji) Free actions of finite abelian groups on the 3-torus. (English summary) **94j:57016**
Lee, Ronnie *see* **Brownstein, Alan, 94k:20073**
Le Tu Quoc Thang Varieties of representations and their subvarieties of cohomology jumps for knot groups. (Russian. Russian summary) **94a:57016**
Long, D. D. (*with* Paton, M.) The Burau representation is not faithful for $n \geq 6$. **94c:20071**
— *see also* **Frohman, Charles, 94a:57012** *and* **Cooper, Daryl, 94b:57003**
Lustig, Martin (*with* Moriah, Yoav) Generating systems of groups and Reidemeister-Whitehead torsion. **94c:20042**
— (*with* Moriah, Yoav) Generalized Montesinos knots, tunnels and $\mathcal{N}$-torsion. **94b:57011**
Møller, Jesper Michael Fundamental groups of section spaces. **94h:55022**
Moriah, Yoav *see* **Lustig, Martin, 94b:57011** *and* **94e:20042**
(Niblo, Graham A.) *see* **Geometric group theory, 94c:20002**
Paton, M. *see* **Long, D. D., 94c:20071**
(Roller, Martin A.) *see* **Geometric group theory, 94c:20002**
Roscoe, A. W. *see* **Kong, T. Y.; et al., 94a:68140**
Rosenfeld, A. *see* **Kong, T. Y.; et al., 94a:68140**
Schüler, Axel The Brauer algebra and the Birman-Wenzl-Murakami algebra. **94h:16055**
Sela, Zlil The conjugacy problem for knot groups. **94g:57012**
Shereshevskii, M. A. Expansiveness, entropy and polynomial growth for groups acting on subshifts by automorphisms. (English summary) **94c:54074**
Shin, Joon Kook *see* **Lee, Kyung Bai; et al., 94j:57016**
Silver, Daniel S. On the existence of minimal Seifert manifolds. (English summary) **94c:57039**
Ventura, Enric *see* **Dicks, Warren, 94i:20047**
Vinet, Luc *see* **Floreanini, Roberto, 94j:81106**

Yokura, Shoji *see* **Lee, Kyung Bai; et al., 94j:57016**
Zha, Xiao Ya On the closed 2-cell embedding conjecture. (English summary) **94i:05031**

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Bern ★ Гиперболические группы по Михаилу Громову. (Russian) [Hyperbolic groups in the theory of Mikhael Gromov] **94m:53060**
Geometric group theory ★ Geometric group theory. Vol. 1. **94c:20002**
Hyperbolic groups in the theory of Mikhael Gromov ★ Гиперболические группы по Михаилу Громову. (Russian) [Hyperbolic groups in the theory of Mikhael Gromov] **94m:53060**
Seminar:
Hyperbolic Groups ★ Гиперболические группы по Михаилу Громову. (Russian) [Hyperbolic groups in the theory of Mikhael Gromov] **94m:53060**
Sussex ★ Geometric group theory. Vol. 1. **94c:20002**
Symposium:
Geometric Group Theory ★ Geometric group theory. Vol. 1. **94c:20002**

57M07 Topological methods in group theory

Bouc, S. Homologie de certains ensembles de 2-sous-groupes des groupes symétriques. (French summary) [Homology of certain sets of 2-subgroups of symmetric groups] **94d:57004**
Cooper, Daryl (*with* Long, D. D.) Derivative varieties and the pure braid group. **94b:57003**
Liu, Gui Zhen *see* **Xie, Li Tong**
Long, D. D. *see* **Cooper, Daryl, 94b:57003**
Morgan, John W. (*with* Otal, Jean-Pierre) Relative growth rates of closed geodesics on a surface under varying hyperbolic structures. **94d:57005**
Otal, Jean-Pierre *see* **Morgan, John W., 94d:57005**
Sela, Zlil Uniform embeddings of hyperbolic groups in Hilbert spaces. (English summary) **94j:57004**
Stallings, John R. Brick's quasi-simple filtrations for groups and 3-manifolds. (English summary) **94k:57004**
Stillwell, John ★ Classical topology and combinatorial group theory. **94a:57001**
Swarup, Gadde A. A note on accessibility. **94m:57004**
Xie, Li Tong (*with* Liu, Gui Zhen) Applications of methods of combinatorial topology in combinatorics and graph theory. (Chinese. English and Chinese summaries)

Items with secondary classifications in 57M07

Bass, Hyman John Milnor, the algebraist. **94c:19001**
— Covering theory for graphs of groups. (English summary) **94j:20028**
Baumslag, Gilbert (*with* Gersten, Steve M.; Shapiro, Michael David; Short, H.) Automatic groups and amalgams—a survey. **94g:20040**
Bestvina, Mladen The virtual cohomological dimension of Coxeter groups. (English summary) **94g:20056**
Brick, Stephen G. Quasi-isometries and ends of groups. (English summary) **94b:20043**
Bridson, Martin R. Geodesics and curvature in metric simplicial complexes. **94c:57040**
— Regular combings, nonpositive curvature and the quasiconvexity of abelian subgroups. (English summary) **94f:20074**
Brown, Kenneth S. Five lectures on buildings. **94b:51017**
— The geometry of rewriting systems: a proof of the Anick-Groves-Squier theorem. (English summary) **94g:20041**
Bullejos, M. (*with* Carrasco, P.; Cabello, J. G.; Cegarra, A. M.; Garzón, A. R.; Miranda, J. G.) Homotopy methods in the theory of algebraic obstruction. (Spanish) **94d:20058**
Burroni, Albert Higher-dimensional word problems with applications to equational logic. (English summary) **94m:03070**
Cabello, J. G. *see* **Bullejos, M.; et al., 94d:20058**
Carlson, Jon F. Systems of parameters and the structure of cohomology rings of finite groups. **94m:20105**
Carrasco, P. *see* **Bullejos, M.; et al., 94d:20058**
Cegarra, A. M. *see* **Bullejos, M.; et al., 94d:20058**
Cohen, Daniel E. String rewriting—a survey for group theorists. **94i:20051**
Collins, D. J. (*with* Turner, E. C.) An automorphism of a free group of finite rank with maximal rank fixed point subgroup fixes a primitive element. (English summary) **94d:20023**
Corson, Jon Michael Conformally nonspherical 2-complexes. **94k:57006**
Daverman, Robert J. Hyper-Hopfian groups and approximate fibrations. **94b:55022**
Duncan, Andrew J. (*with* Howie, James) One relator products with high-powered relators. (English summary) **94i:20066**
Dunwoody, Martin J. An inaccessible group. **94i:20067**
— Inaccessible groups and protrees. (English summary) **94m:20063**
Floyd, William J. Symmetries of planar growth functions. II. **94k:20060**
Garzón, A. R. *see* **Bullejos, M.; et al., 94d:20058**
Gersten, Steve M. Dehn functions and l_1-norms of finite presentations. (English summary) **94g:20049**
— Isoperimetric and isodiametric functions of finite presentations. **94f:20066**
— Quasi-isometry invariance of cohomological dimension. (English and French summaries) **94b:20042**
— The automorphism group of a free group is not a CAT(0) group. (English summary) **94j:20043**
— *see also* **Baumslag, Gilbert; et al., 94g:20040**
(Ghys, Étienne) *see* **Hyperbolic groups in the theory of Mikhael Gromov, 94m:53060**
(Grigorchuk, R. I.) *see* **Hyperbolic groups in the theory of Mikhael Gromov, 94m:53060**
(de la Harpe, Pierre) *see* **Hyperbolic groups in the theory of Mikhael Gromov, 94m:53060**
Howie, James *see* **Duncan, Andrew J., 94i:20066**
Januszkiewicz, Tadeusz For right-angled Coxeter groups $z^{|g|}$ is a coefficient of a uniformly bounded representation. **94a:20066**
(Kurchanov, P. F.) *see* **Hyperbolic groups in the theory of Mikhael Gromov, 94m:53060**
Long, D. D. (*with* Paton, M.) The Burau representation is not faithful for $n \geq 6$. **94c:20071**
Lustig, Martin (*with* Moriah, Yoav) $\mathcal{N}$-torsion and applications. **94g:20039**
— (*with* Moriah, Yoav) Generalized Montesinos knots, tunnels and $\mathcal{N}$-torsion. **94b:57011**
Matsuoka, Takashi[1] The Burau representation of the braid group and the Nielsen-Thurston classification. (English summary) **94k:55003**
Miranda, J. G. *see* **Bullejos, M.; et al., 94d:20058**
Moriah, Yoav *see* **Lustig, Martin, 94b:57011** *and* **94g:20039**
(Niblo, Graham A.) *see* **Geometric group theory, 94f:20002**
Ohtsuki, Tomotada Ideal points and incompressible surfaces in two-bridge knot complements. **94k:57016**
Ol'shanskiĭ, A. Yu. On residualing homomorphisms and G-subgroups of hyperbolic groups. **94i:20069**
Paton, M. *see* **Long, D. D., 94c:20071**
Pittet, Christophe Surface groups and quasi-convexity. **94g:20050**
Roller, Martin A. Constructing group actions on trees. **94i:20043**
— *see also* **Geometric group theory, 94f:20002**
Shalen, Peter B. Dendrology and its applications. **94e:57020**
Shapiro, Michael David *see* **Baumslag, Gilbert; et al., 94g:20040**
Short, H. *see* **Baumslag, Gilbert; et al., 94g:20040**
Tong, Dian Min *see* **Zhu, Cheng Jiu, 94a:20063**
Turner, E. C. *see* **Collins, D. J., 94d:20023**
Wenzl, Hans Unitary braid representations. (English summary) **94d:20039**
Zhu, Cheng Jiu (*with* Tong, Dian Min) Some important representations of the braid groups B_n. (Chinese. English summary) **94a:20063**

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57N05 Topology of E^2, 2-manifolds

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van Mill, Jan *see* **Gladdines, Helma, 94b:54096**
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West, James Borsuk's influence on infinite-dimensional topology. **94f:01034**

57N25 Shapes [see also 54C56, 55P55, 55Q07]

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Günther, Bernd A compactum that cannot be an attractor of a self-map on a manifold. **94d:55023**
Laguna, V. F. (*with* Morón, M. A.; Nguyen To Nhu; Sanjurjo, J. M. R.) Movability and limits of polyhedra. (English summary) **94h:54015**
Morón, M. A. *see* **Laguna, V. F.; et al., 94h:54015**
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Sanjurjo, J. M. R. *see* **Laguna, V. F.; et al., 94h:54015**
Sher, R. B. A complement theorem in the universal Menger compactum. (English summary) **94i:54037**

57N30 Engulfing

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El Kacimi-Alaoui, Aziz (*with* Nicolau, Marcel) On the topological invariance of the basic cohomology. **94c:57046**
Nicolau, Marcel *see* **El Kacimi-Alaoui, Aziz, 94c:57046**

57N35 Embeddings and immersions

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Ferry, Steven C. On the Ancel-Cannon theorem. **94m:57046**
Li, Bang He (*with* Zhang, Ping[1]) On isotopy classification of embeddings of n-manifolds in $2n$-manifolds. **94c:57037**
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Stong, Richard A. Existence of π_1-negligible embeddings in 4-manifolds. A correction to Theorem 10.5 of Freedmann and Quinn. (English summary) **94h:57035**
Zhang, Ping[1] *see* **Li, Bang He, 94c:57037**

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— (*with* Tinsley, Fred C.) A controlled plus construction for crumpled laminations. (English summary) **94f:57020**
Hayakawa, Eijirou On some branched surfaces which admit expanding immersions. II [MR 92h:57005]. (English summary) (*see* **94d:58002**)
Lee, Ronnie (*with* Wilczyński, Dariusz M.) Representing homology classes by locally flat 2-spheres. (English summary) **94m:57041**
Lin, Xiao Song[2] Finite type link invariants of 3-manifolds. **94m:57020**
Maehara, Hiroshi Why is $\mathbf{P}^2$ not embeddable in $\mathbf{R}^3$? **94j:57018**
Person, Laura A piecewise linear proof that the singular norm is the Thurston norm. (English summary) **94j:57015**
Saeki, Osamu On 4-manifolds homotopy equivalent to the 2-sphere. **94h:57033**
Tinsley, Fred C. *see* **Daverman, Robert J., 94f:57020** *and* **94g:57025**
Wilczyński, Dariusz M. *see* **Lee, Ronnie, 94m:57041**

57N37 Isotopy and pseudo-isotopy

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57N40 Neighborhoods of submanifolds

Items with secondary classifications in 57N40

Ancel, Fredric D. (*with* Vo Thanh Liem; Venema, Gerard A.) Neighborhoods of S^1-like continua in 4-manifolds. **94c:57035**
Daverman, Robert J. (*with* Tinsley, Fred C.) A collaring theorem for codimension one manifolds. (English summary) **94g:57025**
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57N45 Flatness and tameness

Daverman, Robert J. (*with* Tinsley, Fred C.) A collaring theorem for codimension one manifolds. (English summary) **94g:57025**
Finley, Davis W. New proofs of Bing's 1-ULC taming theorem and Bing's side approximation theorem. **94j:57022**
Tinsley, Fred C. *see* **Daverman, Robert J., 94g:57025**

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57N50 $S^{n-1} \subset E^n$, Schoenflies problem

Items with secondary classifications in 57N50

Luukkainen, Jouni On the relative Schoenflies theorem. (English summary) **94d:30036**

57N60 Cellularity

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McAuley, L. F. (*with* Johnson, Robert A.) Generating cellular decompositions of E^3 and the nonexistence of certain finite-to-one mappings. **94i:57034**

Items with secondary classifications in 57N60

Ferry, Steven C. Constructing UV^k-maps between spheres. **94b:57029**

Magro, Gaetano Cellularity and approximation problems. (Italian. English summary) **94d:57053**

57N65 Algebraic topology of manifolds

Uc, Masaaki On the deformations of the geometric structures on the Seifert 4-manifolds. **94e:57030**

Items with secondary classifications in 57N65

Cavicchioli, Alberto (*with* Spaggiari, Fulvia) On the topological structure of compact 5-manifolds. (English summary) **94k:57032**
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Kauffman, Louis H. Gauss codes, quantum groups and ribbon Hopf algebras. (English summary) **94k:57013**
Llibre, Jaume Lefschetz numbers for periodic points. (English summary) **94g:55002**
McCord, Christopher K. Nielsen numbers of homotopically periodic maps on infrasolvmanifolds. (English summary) **94h:55004**
Orlik, Peter (*with* Terao, Hiroaki) ★ Arrangements of hyperplanes. **94e:52014**
Spaggiari, Fulvia *see* **Cavicchioli, Alberto, 94k:57032**
Terao, Hiroaki *see* **Orlik, Peter, 94e:52014**

57N70 Cobordism and concordance

Daverman, Robert J. (*with* Tinsley, Fred C.) A controlled plus construction for crumpled laminations. (English summary) **94f:57020**
Tinsley, Fred C. *see* **Daverman, Robert J., 94f:57020**

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Daverman, Robert J. (*with* Tinsley, Fred C.) A collaring theorem for codimension one manifolds. (English summary) **94g:57025**
Gilmer, Patrick M. Link cobordism in rational homology 3-spheres. (English summary) **94m:57012**
Myers, Robert Excellent 1-manifolds in compact 3-manifolds. (English summary) **94a:57034**
Silver, Daniel S. On knot-like groups and ribbon concordance. (English summary) **94a:57021**
Tinsley, Fred C. *see* **Daverman, Robert J., 94g:57025**

57N75 General position and transversality

de Carvalho, Francisco J. Craveiro Transnormal graph deformations. **94k:57034**

Items with secondary classifications in 57N75

Jezierski, Jerzy The Nielsen coincidence theory on topological manifolds. (English summary) **94j:55002**
Kuperberg, Greg Quadrisecants of knots and links. (English summary) **94m:57019**
Lin, Xiao Song[2] Finite type link invariants of 3-manifolds. **94m:57020**

57N80 Stratifications

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Items with secondary classifications in 57N80

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— (*with* Petrunin, A. M.) Extremal subsets in Aleksandrov spaces and the generalized Liberman theorem. (Russian. Russian summary) **94h:53055**
Petrunin, A. M. *see* **Perel'man, G. Ya., 94h:53055**

57N99 None of the above, but in this section

Ayala, R. (*with* Quintero, A.) A note on the homotopical characterization of $\mathbf{R}^n$. (English summary) **94h:57036**
Guo, Jian Han On a theorem of Halpern. (Chinese. English and Chinese summaries) **94k:57035**
Quintero, A. *see* **Ayala, R., 94h:57036**

Items with secondary classifications in 57N99

Akbulut, Selman (*with* King, Henry Churchill) Constructing strange real algebraic sets. **94c:14046**
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Chigogidze, A. Ch. Finding a boundary for a Menger manifold. (English summary) **94k:57038**
Cooper, C. L. Determining topologies by collections of proper maps and by weak topologies. (English summary) **94m:54051**
Fedorchuk, V. V. (*with* Filippov, V. V.) Manifolds with noncoinciding inductive dimensions. (Russian. Russian summary) **94d:54074**
Filippov, V. V. *see* **Fedorchuk, V. V., 94d:54074**
Huke, J. P. *see* **Muldoon, M. R.; et al., 94d:58093**
Jiang, Tan (*with* Yau, Stephen S.-T.) Topological and differentiable structures of the complement of an arrangement of hyperplanes. **94d:52017**
King, Henry Churchill *see* **Akbulut, Selman, 94c:14046**
MacKay, Robert *see* **Muldoon, M. R.; et al., 94d:58093**
Medvedev, T. V. Conjugacy of rearrangements of two open intervals of a circle without periodic points. (Russian) **94c:58059**
Moszyńska, Maria Lipschitz inverse and direct sequences. (English summary) **94m:54030**
Muldoon, M. R. (*with* MacKay, Robert; Huke, J. P.; Broomhead, D. S.) Topology from time series. (English summary) **94d:58093**
Paternain, Gabriel P. (*with* Paternain, Miguel) Expansivity for optical Hamiltonian systems with two degrees of freedom. (English and French summaries) **94e:58047**
Paternain, Miguel *see* **Paternain, Gabriel P., 94e:58047**
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57Pxx Generalized manifolds [see also 18F15]

57P10 Poincaré duality spaces

Hillman, Jonathan A. On 3-dimensional Poincaré duality complexes and 2-knot groups. (English summary) **94h:57037**
Mukerjee, Himadri Kumar Errata: "Poincaré cobordism exact sequences and characterisation" [Pacific J. Math. **146** (1990), no. 1, 85–101; MR 91j:57021]. **94c:57038**

Items with secondary classifications in 57P10

Kropholler, Peter H. A group-theoretic proof of the torus theorem. **94i:57029**
Ranicki, Andrew ★ Algebraic L-theory and topological manifolds. (English summary) **94i:57051**

57P99 None of the above, but in this section

Bognár, M. On pseudomanifolds with boundary. II. **94b:57025**

Items with secondary classifications in 57P99

Dragotti, S. (*with* Esposito, Rosa; Magro, Gaetano) Construction of functors connecting homology and homotopy theories. **94d:57048**
Esposito, Rosa *see* **Dragotti, S.; et al., 94d:57048**
Farsi, Carla Topological orbifolds. (English summary) **94m:57073**
Krupski, Paweł On the disjoint $(0, n)$-cells property for homogeneous ANRs. (English summary) **94i:54038**
Magro, Gaetano *see* **Dragotti, S.; et al., 94d:57048**

57Qxx PL-topology

57Q05 General topology of complexes

Aschbacher, Michael (*with* Segev, Yoav) Locally connected simplicial maps. (English summary) **94k:57036**
Bognár, M. On a theorem of Runge. **94m:57048**
Lawrence, R. J. On algebras and triangle relations. (English summary) **94e:57032**
MacPherson, Robert Combinatorial differential manifolds. **94d:57047**
Rosicki, Witold On the uniqueness of decomposition of polyhedra into Cartesian product. **94i:57035**
Segev, Yoav *see* **Aschbacher, Michael, 94k:57036**

Items with secondary classifications in 57Q05

Cavicchioli, Alberto (*with* Meschiari, Mauro) On classification of 4-manifolds according to genus. (French summary) **94b:57026**
Gordon, C. McA. On spines of 3-manifolds with boundary. (English summary) **94i:57028**
Guo, Bao Lin (*with* Sakai, Katsuro) Hyperspaces of CW-complexes. (English summary) **94f:54023**
Hardie, K. A. (*with* Vermeulen, J. J. C.) Homotopy theory of finite and locally finite T_0 spaces. (English summary) **94j:55014**
Meschiari, Mauro *see* **Cavicchioli, Alberto, 94b:57026**
Penner, Robert C. (*with* Waterman, Michael S.) Spaces of RNA secondary structures. (English summary) **94j:92006**
Sakai, Katsuro *see* **Guo, Bao Lin, 94f:54023**
Vermeulen, J. J. C. *see* **Hardie, K. A., 94j:55014**
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57Q10 Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc. [see also 19B28]

Cavicchioli, Alberto (*with* Meschiari, Mauro) On classification of 4-manifolds according to genus. (French summary) **94b:57026**
Hambleton, Ian (*with* Kreck, Matthias) Cancellation of lattices and finite two-complexes. **94i:57036**
Hu, Bi Zhong Whitehead groups of finite polyhedra with nonpositive curvature. **94k:57037**
Kreck, Matthias *see* **Hambleton, Ian, 94i:57036**
Meschiari, Mauro *see* **Cavicchioli, Alberto, 94b:57026**

Items with secondary classifications in 57Q10

Carey, Alan L. (*with* Mathai, Varghese) L^2-torsion invariants. (English summary) **94a:58211**
Carfora, Mauro (*with* Marzuoli, Annalisa) Reidemeister torsion and simplicial quantum gravity. (English summary) **94k:83028**
Costenoble, Steven R. (*with* Waner, Stefan) Equivariant simple Poincaré duality. **94m:55006**
Hog-Angeloni, Cynthia (*with* Metzler, Wolfgang[1]) Stabilization by free products giving rise to Andrews-Curtis equivalences. **94e:57003**
Klein, John R. Higher Reidemeister torsion and parametrized Morse theory. **94h:57046**
Kwasik, Sławomir (*with* Schultz, Reinhard) Unitary nilpotent groups and the stability of pseudoisotopies. **94m:57047**
Lück, Wolfgang Analytic and topological torsion for manifolds with boundary and symmetry. **94e:57054**
Marzuoli, Annalisa *see* **Carfora, Mauro, 94k:83028**
Mathai, Varghese *see* **Carey, Alan L., 94a:58211**
Metzler, Wolfgang[1] *see* **Hog-Angeloni, Cynthia, 94e:57003**
Sánchez-Morgado, Héctor Lefschetz formulae for Anosov flows on 3-manifolds. (English summary) **94g:58179**

Schultz, Reinhard *see* **Kwasik, Slawomir, 94m:57047**
Waner, Stefan *see* **Costenoble, Steven R., 94m:55006**

57Q12 Wall finiteness obstruction for CW-complexes

Chigogidze, A. Ch. Finding a boundary for a Menger manifold. (English summary) **94k:57038**

57Q15 Triangulating manifolds

Brehm, Ulrich (*with* Kühnel, Wolfgang) 15-vertex triangulations of an 8-manifold. **94e:57033**
Kühnel, Wolfgang *see* **Brehm, Ulrich, 94e:57033**

Items with secondary classifications in 57Q15

Banchoff, Thomas (*with* Kühnel, Wolfgang) Equilibrium triangulations of the complex projective plane. (English summary) **94a:52035**
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Bognár, M. On a theorem of Runge. **94m:57048**
Kühnel, Wolfgang *see* **Banchoff, Thomas, 94a:52035**
Malnič, Aleksander (*with* Mohar, Bojan) Generating locally cyclic triangulations of surfaces. (English summary) **94b:05062**
Mohar, Bojan *see* **Malnič, Aleksander, 94b:05062**
Nabutovsky, A. (*with* Ben-Av, R.) Noncomputability arising in dynamical triangulation model of four-dimensional quantum gravity. (English summary) **94m:83020**
Przytycka, Teresa M. (*with* Przytycki, Józef H.) Surface triangulations without short noncontractible cycles. (English summary) **94e:05092**
Przytycki, Józef H. *see* **Przytycka, Teresa M., 94e:05092**
Schipper, Haijo Generating triangulations of 2-manifolds. (English summary) **94g:68125**
Schulz, Christoph Polyedrische Mannigfaltigkeiten. [Polyhedral manifolds] **94h:52031**

57Q20 Cobordism

Dragotti, S. (*with* Esposito, Rosa; Magro, Gaetano) Construction of functors connecting homology and homotopy theories. **94d:57048**
Dundas, Bjørn Ian Fibrations and homology sphere bordism. **94e:57034**
Esposito, Rosa *see* **Dragotti, S.; et al., 94d:57048**
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Items with secondary classifications in 57Q20

Bartík, Vojtěch (*with* Korbaš, Július) Stationary point free elementary abelian 2-group actions on Grassmannians—an elementary approach. **94d:57064**
Hambleton, Ian (*with* Kreck, Matthias; Teichner, Peter) Nonorientable 4-manifolds with fundamental group of order 2. **94k:57031**
Korbaš, Július *see* **Bartík, Vojtěch, 94d:57064**
Kreck, Matthias *see* **Hambleton, Ian; et al., 94k:57031**
Teichner, Peter *see* **Hambleton, Ian; et al., 94k:57031**

57Q25 Comparison of PL-structures: classification, Hauptvermutung

Items with secondary classifications in 57Q25

Akbulut, Selman Knots and exotic smooth structures on 4-manifolds. (English summary) **94e:57029**
Stong, Richard A. Existence of π_1-negligible embeddings in 4-manifolds. A correction to Theorem 10.5 of Freedmann and Quinn. (English summary) **94h:57035**

57Q35 Embeddings and immersions

Dranishnikov, A. N. (*with* Repovš, D.) Embeddings up to homotopy type in Euclidean space. (English summary) **94d:57049**
Repovš, D. *see* **Dranishnikov, A. N., 94d:57049**
Segal, Jack (*with* Spież, Stanisław) Quasi embeddings and embeddings of polyhedra in $\mathbf{R}^m$. (English summary) **94d:57050**
Spież, Stanisław *see* **Segal, Jack, 94d:57050**

Items with secondary classifications in 57Q35

Carter, J. Scott ★ How surfaces intersect in space. (English summary) **94k:57033**
Miller, David Noncharacteristic embeddings of the n-dimensional torus in the $(n+2)$-dimensional torus. (English summary) **94e:57037**
Motto, Michael A sufficient condition for surfaces in 3-manifolds to have unique prime decompositions. (English summary) **94f:57018**

57Q37 Isotopy

Items with secondary classifications in 57Q37

Penne, R. Configurations of few lines in 3-space. Isotopy, chirality and planar layouts. (English summary) **94a:52017**

57Q40 Regular neighborhoods

Gadzhimuradov, M. A. The Kronecker-Morse formula for nonclosed polyhedral hypersurfaces in E^4. (Russian) **94f:57021**

57Q45 Knots and links (in high dimensions) {For the low-dimensional case, see 57M25.}

Boyle, Jeffrey The turned torus knot in S^4. (English summary) **94i:57037**
Du Bois, Philippe (*with* Michel, Françoise) Cobordism of algebraic knots via Seifert forms. (English summary) **94d:57051**
Farber, M. Sh. (*with* Hillman, Jonathan A.) Doubly null concordant knots have hyperbolic stable isometry structures. (English summary) **94i:57038**
Hillman, Jonathan A. *see* **Farber, M. Sh., 94i:57038**
Kamada, Seiichi Alexander's and Markov's theorems in dimension four. (English summary) **94j:57023**
Komatsu, Kazushi (*with* Matumoto, Takao) Knot-link theory and Lusternik-Schnirelmann category. (English summary) **94h:57038**
Levine, Jerome P. Signature invariants of homology bordism with applications to links. **94g:57026**
Matumoto, Takao *see* **Komatsu, Kazushi, 94h:57038**
Michel, Françoise *see* **Du Bois, Philippe, 94d:57051**
Nakanishi, Yasutaka (*with* Teragaito, Masakazu) 2-knots from a view of moving picture. **94d:57052**
Nezhinskiĭ, V. M. Singular links of $(p, 2k+1)$-type in a $(4k+2)$-dimensional sphere. (Russian. Russian summary) **94k:57039**
Richter, William High-dimensional knots with $\pi_1 \cong \mathbf{Z}$ are determined by their complements in one more dimension than Farber's range. (English summary) **94b:57027**
Sato, Yoshihisa Scharlemann's 4-manifolds and smooth 2-knots in $S^2 \times S^2$. (English summary) **94j:57024**
Silver, Daniel S. Augmented group systems and n-knots. **94i:57039**
— On the existence of minimal Seifert manifolds. (English summary) **94c:57039**
Tamura, Itiro Fundamental theorems in global knot theory. **94m:57049**
Teragaito, Masakazu *see* **Nakanishi, Yasutaka, 94d:57052**
Yoshikawa, Katsuyuki Certain abelian subgroups of two-knot groups. **94e:57035**

Items with secondary classifications in 57Q45

Adams, Colin C. ★ The knot book. (English summary) **94m:57007**
Carter, J. Scott ★ How surfaces intersect in space. (English summary) **94k:57033**
Farber, M. Sh. Noncommutative rational functions and boundary links. **94m:68137**
Guilbault, Craig R. Linked pairs of contractible polyhedra in S^n. (English summary) **94j:57021**
Hillman, Jonathan A. Geometries on 4-manifolds, Euler characteristic and elementary amenable groups. (English summary) **94b:57022**
Levine, Jerome P. (*with* Mio, W.; Orr, K. E.) Links with vanishing homotopy invariant. **94e:57036**
Miller, David Noncharacteristic embeddings of the n-dimensional torus in the $(n+2)$-dimensional torus. (English summary) **94e:57037**
Mio, W. *see* **Levine, Jerome P.; et al., 94e:57036**
Moishezon, Boris On cuspidal branch curves. **94j:14018**
Orr, K. E. *see* **Levine, Jerome P.; et al., 94e:57036**

57Q55 Approximations

Magro, Gaetano Cellularity and approximation problems. (Italian. English summary) **94d:57053**

Items with secondary classifications in 57Q55

Dranishnikov, A. N. (*with* Repovš, D.; Shchepin, E. V.) On approximation and embedding problems for cohomological dimension. (English summary) **94m:55001**
Repovš, D. *see* **Dranishnikov, A. N.; et al., 94m:55001**
Shchepin, E. V. *see* **Dranishnikov, A. N.; et al., 94m:55001**

57Q60 Cobordism and concordance

Levine, Jerome P. (*with* Mio, W.; Orr, K. E.) Links with vanishing homotopy invariant. **94e:57036**
Miller, David Noncharacteristic embeddings of the n-dimensional torus in the $(n+2)$-dimensional torus. (English summary) **94e:57037**
Mio, W. *see* **Levine, Jerome P.; et al., 94e:57036**
Orr, K. E. *see* **Levine, Jerome P.; et al., 94e:57036**

Items with secondary classifications in 57Q60

Gilmer, Patrick M. Link cobordism in rational homology 3-spheres. (English summary) **94m:57012**
Yetter, David N. TQFTs from homotopy 2-types. (English summary) **94e:57028**

57Q65 General position and transversality

Babenko, I. A. Singularities of the projection of piecewise-linear surfaces in $\mathbf{R}^3$. (Russian) **94i:57040**

Items with secondary classifications in 57Q65

Brahm, Matthew V. A space filling map from I^2 to I^3 with a zero-dimensional singular set. (English summary) **94m:57040**
Dranishnikov, A. N. (*with* Repovš, D.; Shchepin, E. V.) On approximation and embedding problems for cohomological dimension. (English summary) **94m:55001**
Repovš, D. *see* **Dranishnikov, A. N.; et al., 94m:55001**
Shchepin, E. V. *see* **Dranishnikov, A. N.; et al., 94m:55001**

57Q91 Equivariant PL-topology

Items with secondary classifications in 57Q91

Molnár, Emil Klassifikation der hyperbolischen Dodekaederpflasterungen von maximalen Flächentransitiven Bewegungsgruppen. (English summary) [Classification of hyperbolic dodecahedron tilings of maximal face transitive groups of motions] **94h:52046**

57Q99 None of the above, but in this section

Bridson, Martin R. Geodesics and curvature in metric simplicial complexes. **94c:57040**
Casali, Maria Rita A note on the characterization of handlebodies. (English summary) **94i:57041**
— (*with* Gagliardi, Carlo) Classifying PL 5-manifolds up to regular genus seven. (English summary) **94b:57028**
Ferry, Steven C. Constructing UV^k-maps between spheres. **94b:57029**
Gagliardi, Carlo *see* **Casali, Maria Rita, 94b:57028**
Harary, Frank (*with* Lawrencenko, Serge; Korzhik, V. P.) Realizing the chromatic numbers of triangulations of surfaces. (English summary) **94g:57027**
Korzhik, V. P. *see* **Harary, Frank; et al., 94g:57027**
Lawrencenko, Serge *see* **Harary, Frank; et al., 94g:57027**

Items with secondary classifications in 57Q99

Babenko, I. A. Singularities of the projection of piecewise-linear surfaces in $\mathbf{R}^3$. (Russian) **94i:57040**
Engel, Peter On the morphology of polytopes in $\mathbf{R}^d$. (English summary) **94g:68116**
Mizuno, Hirobumi *see* **Shimizu, Yoshinori, 94h:94013**
Morimoto, Hiroshi A combinatorial criterion for the vanishing of Pontryagin classes. (English summary) **94m:57052**
Phillips, Anthony V. The topology of Roman mosaic mazes. (English summary) (*see* **94h:00013**)
Ralph, Daniel A new proof of Robinson's homeomorphism theorem for PL-normal maps. (English summary) **94b:90055**
Rudyak, Yu. B. The problem of realization of homology classes from Poincaré up to the present [MR 92k:55006]. (*see* **94d:00013**)
Shimizu, Yoshinori (*with* Mizuno, Hirobumi) Codes from an n-dimensional torus simplicially or cellularly decomposed. (Japanese. English summary) **94h:94013**
Tollefson, Jeffrey L. Normal surfaces minimizing weight in a homology class. (English summary) **94k:57024**

57Rxx Differential topology {For foundational questions of differentiable manifolds, see 58Axx; for infinite-dimensional manifolds, see 58Bxx.}

Brylinski, Jean-Luc ★ Loop spaces, characteristic classes and geometric quantization. **94b:57030**

57R10 Smoothing

Items with secondary classifications in 57R10

Farrell, F. T. (*with* Jones, Lowell Edwin) Exotic smoothings of hyperbolic manifolds which do not support pinched negative curvature. (English summary) **94h:57047**
Grayson, Matthew (*with* Pugh, Charles Chapman) Critical sets in 3-space. (English summary) **94k:57049**
Jones, Lowell Edwin *see* **Farrell, F. T., 94h:57047**
Kametani, Yukio Torus sum formula of simple invariants for 4-manifolds. **94d:57045**
Pugh, Charles Chapman *see* **Grayson, Matthew, 94k:57049**

57R15 Specialized structures on manifolds (spin manifolds, framed manifolds, etc.)

Battaglia, Fiammetta Linear quasicomplex structures on S^6. (Italian) **94e:57038**
Bruni, Marcello On the explicit parallelization of products of spheres. (Italian. English and Italian summaries) **94d:57054**
Cahen, Michel (*with* Gutt, Simone; Trautman, Andrzej) Spin structures on real projective quadrics. (English summary) **94c:57041**
Carrière, Yves Questions ouvertes sur les variétés affines. [Open questions concerning affine manifolds] **94e:57039**
Gibbons, Gary W. (*with* Hawking, Stephen W.) Selection rules for topology change. (English summary) **94c:57042**
Giroux, Emmanuel Topologie de contact en dimension 3 (autour des travaux de Yakov Eliashberg). (French summary) [Contact topology in dimension 3 (about the works of Yakov Eliashberg)] **94k:57040**
Gutt, Simone *see* **Cahen, Michel; et al., 94c:57041**
Hawking, Stephen W. *see* **Gibbons, Gary W., 94c:57042**
Kirby, R. C. (*with* Taylor, Laurence R.) Pin structures on low-dimensional manifolds. **94b:57031**
Low, Robert J. Topological changes in lower dimensions. (English summary) **94a:57041**
Tang, Zi Zhou Nonexistence of weakly almost complex structures on Grassmannians. (English summary) **94j:57025**
Taylor, Laurence R. *see* **Kirby, R. C., 94b:57031**
Thelen, S. Algebraic spin structures. (English summary) **94g:57028**
Trautman, Andrzej *see* **Cahen, Michel; et al., 94c:57041**
Zhang, Wei Ping[1] Spin^c-manifolds and Rokhlin congruences. (English and French summaries) **94i:57042**

Items with secondary classifications in 57R15

Akbulut, Selman On algebraic structures of manifolds. **94m:57050**
Banyaga, Augustin On characteristics of hypersurfaces in symplectic manifolds. **94f:53048**
Dimou, G. E. *see* **Tsagas, Gr. F., 94g:58242**
Eliashberg, Yakov Existence and nonexistence of a Stein complex structure on differentiable manifolds. (English summary) **94e:32028**
— Legendrian and transversal knots in tight contact 3-manifolds. **94e:57005**
— Classification of contact structures on $\mathbf{R}^3$. **94j:53038**
El Yaaquoubi, Mohamed Sghir Sous-variétés remarquables d'une variété de contact. (English and French summaries) [Distinguished submanifolds of a contact manifold] **94d:53049**
Fleury, N. (*with* Rausch de Traubenberg, M.; Yamaleev, R. M.) Generalized Clifford algebras and hyperspin manifolds. (English summary) **94m:15023**
Geiges, Hansjörg Symplectic manifolds with disconnected boundary of contact type. **94m:53042**
Ghanaat, Patrick Local structure of framed manifolds. **94g:53029**
Ishikawa, Goo (*with* Ohmoto, Toru) Local invariants of singular surfaces in an almost complex four-manifold. (English summary) **94i:57048**
Kreck, Matthias (*with* Stolz, Stephan) HP^2-bundles and elliptic homology. **94k:55015**
Lashof, R. Homogeneous Hamiltonian G-bundles. (English summary) **94i:57054**
McDuff, Dusa Rational and ruled symplectic 4-manifolds. **94b:57042**
Netsvetaev, N. Yu. On an analogue of the Maslov index. (Russian. Russian summary) **94m:58087**
Niglio, Louis Classes isotropes et classes de Maslov. (English and French summaries) [Isotropic classes and Maslov classes] **94h:57041**
Ohmoto, Toru *see* **Ishikawa, Goo, 94i:57048**
Polterovich, L. V. Symplectic displacement energy for Lagrangian submanifolds. (English summary) **94h:58081**
Rausch de Traubenberg, M. *see* **Fleury, N.; et al., 94m:15023**
Stolz, Stephan *see* **Kreck, Matthias, 94k:55015**
Teichner, Peter On the signature of four-manifolds with universal covering spin. **94h:57042**
Tsagas, Gr. F. (*with* Dimou, G. E.) The spectrum of the Laplace operator and some basic properties for a Dold manifold. **94g:58242**
Tung, Chia Chi On the conditions for the parallelizability of a compact complex manifold. (English summary) **94c:53062**
Viterbo, Claude Une introduction à la topologie symplectique. (French summary) [An introduction to symplectic topology] **94c:58075**
Yamaleev, R. M. *see* **Fleury, N.; et al., 94m:15023**

57R19 Algebraic topology on manifolds

Akbulut, Selman On algebraic structures of manifolds. **94m:57050**
Arapura, Donu (*with* Bressler, P.; Ramachandran, M.) On the fundamental group of a compact Kähler manifold. **94e:57040**
Bressler, P. *see* **Arapura, Donu; et al., 94e:57040**
Degtyarëv, Aleksandr Igor'evich Stiefel orientations on a real algebraic variety. (English summary) **94g:57029**
Ferry, Steven C. (*with* Weinberger, Shmuel) Curvature, tangentiality, and controlled topology. **94c:57043**
Karpushkin, V. N. An estimate for the Betti numbers of the level surface of a harmonic polynomial. (Russian) **94a:57042**
Kotschick, D. On connected sum decompositions of algebraic surfaces and their fundamental groups. **94h:57039**
Ramachandran, M. *see* **Arapura, Donu; et al., 94e:57040**
Weinberger, Shmuel *see* **Ferry, Steven C., 94c:57043**

Items with secondary classifications in 57R19

Babenko, I. K. Asymptotic invariants of smooth manifolds. (Russian. Russian summary) **94d:53068**
Bohm, Arno (*with* Boya, Luis J.; Mostafazadeh, Ali; Rudolph, Gerd) Classification theorem for principal fibre bundles, Berry's phase, and exact cyclic evolution. (English summary) **94h:53100**
Boya, Luis J. *see* **Bohm, Arno; et al., 94h:53100**
Gilmer, Patrick M. Signatures of singular branched covers. **94h:57040**
Hillman, Jonathan A. Geometries on 4-manifolds, Euler characteristic and elementary amenable groups. (English summary) **94b:57022**
Kikuchi, Kazunori Positive 2-spheres in 4-manifolds of signature $(1, n)$. (English summary) **94f:57027**
Kirk, Paul (*with* Klassen, Eric P.) Chern-Simons invariants of 3-manifolds decomposed along tori and the circle bundle over the representation space of T^2. (English summary) **94d:57042**
Klassen, Eric P. *see* **Kirk, Paul, 94d:57042**
Klein, John R. Higher Franz-Reidemeister torsion: low-dimensional applications. (English summary) **94g:19004**
Li, Jian-Shu (*with* Millson, John J.) On the first Betti number of a hyperbolic manifold with an arithmetic fundamental group. **94e:11062**
Li, Wei-Ping (*with* Qin, Zhenbo) Lower-degree Donaldson polynomial invariants of rational surfaces. **94f:14032**
Millson, John J. *see* **Li, Jian-Shu, 94e:11062**
Mostafazadeh, Ali *see* **Bohm, Arno; et al., 94h:53100**
Oertel, Ulrich (*with* Papadopoulos, Athanase) Intersection operations for measured laminations carried by a branched manifold. (English summary) **94d:57034**
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Qin, Zhenbo *see* **Li, Wei-Ping, 94f:14032**
Rudolph, Gerd *see* **Bohm, Arno; et al., 94h:53100**
Zucker, Steven M. L^p-cohomology: Banach spaces and homological methods on Riemannian manifolds. **94m:58212**

57R20 Characteristic classes and numbers

Armstrong, Peter The divisibility of normal Chern numbers. **94e:57041**
Asada, A. Characteristic classes of loop group bundles and generalized string classes. **94f:57022**
Banchoff, Thomas (*with* Farris, Frank) Tangential and normal Euler numbers, complex points, and singularities of projections for oriented surfaces in four-space. (English summary) **94j:57026**
Bismut, Jean-Michel (*with* Cheeger, Jeff) Transgressed Euler classes of $SL(2n, \mathbf{Z})$ vector bundles, adiabatic limits of eta invariants and special values of L-functions. (English and

French summaries) **94e:57042**
Cheeger, Jeff *see* **Bismut, Jean-Michel, 94e:57042**
Cho, Yong Seung Vector bundles, characteristic classes and gauge theory in 4-manifolds. (*see* **94b:81005**)
Farris, Frank *see* **Banchoff, Thomas, 94j:57026**
Gel'fand, I. M. (*with* Tsygan, B. L.) On the localization of topological invariants. **94a:57043**
Gilmer, Patrick M. Signatures of singular branched covers. **94h:57040**
Johnson, F. E. A. (*with* Kotschick, D.) On the signature and Euler characteristic of certain four-manifolds. **94i:57043**
Johnson, Ockie Critical point theorems and Whitney duality for polyhedral surfaces. (English summary) **94m:57051**
Kasparov, G. G. Novikov's conjecture on higher signatures: the operator K-theory approach. **94c:57044**
Kobayashi, Teiichi Stiefel-Whitney classes of the symmetric power of some spin bundle and an application. **94e:57043**
Kotschick, D. *see* **Johnson, F. E. A., 94i:57043**
Kultze, Rolf An elementary proof for the nonparallelizability of oriented Grassmannians. **94e:57044**
Losik, M. V. Characteristic classes of transformation groups. (English summary) **94i:57044**
Morimoto, Hiroshi A combinatorial criterion for the vanishing of Pontryagin classes. (English summary) **94m:57052**
Niglio, Louis Classes isotropes et classes de Maslov. (English and French summaries) [Isotropic classes and Maslov classes] **94h:57041**
Piccinni, Paolo Vector fields and characteristic numbers on hyper-Kähler and quaternionic Kähler manifolds. (Italian. English and Italian summaries) **94c:57045**
Rong, Xiaochun The limiting eta invariants of collapsed three-manifolds. (English summary) **94f:57023**
Shi, He Symmetric functions and the Chern characters of a hypersurface with singularities. **94b:57032**
Teichner, Peter On the signature of four-manifolds with universal covering spin. **94h:57042**
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Items with secondary classifications in 57R20

Akbulut, Selman On algebraic structures of manifolds. **94m:57050**
Andrica, Dorin Some remarks concerning the Morse-Smale characteristic of a compact manifold. **94b:57039**
Axelrod, Scott (*with* Singer, I. M.) Chern-Simons perturbation theory. (English summary) **94g:58244**
Baadhio, Randy A. Vacuum configuration for inflationary superstring. (English summary) **94d:58136**
Barge, Marcy M. (*with* Walker, Russell B.) Periodic point free maps of tori which have rotation sets with interior. (English summary) **94e:58104**
(Baum, Paul) *see* **Hirzebruch, Friedrich; et al., 94d:57001**
Bejan, C.-L. The Bochner curvature tensor on a hyperbolic Kähler manifold. **94b:53061**
Berger, Thomas *see* **Hirzebruch, Friedrich; et al., 94d:57001**
Bismut, Jean-Michel (*with* Lott, John) Fibrés plats, images directes et formes de torsion analytique. (English and French summaries) [Flat vector bundles, direct images and analytic torsion forms] **94f:58134**
— (*with* Zhang, Wei Ping[1]) Real embeddings and eta invariants. **94e:58131**
Blau, Matthias (*with* Thompson, George) $N = 2$ topological gauge theory, the Euler characteristic of moduli spaces, and the Casson invariant. (English summary) **94g:58034**
— The Mathai-Quillen formalism and topological field theory. (English summary) **94e:58018**
Blažić, Novica Geodesic balls and Chern numbers of Kähler manifolds. **94a:53100**
Duflo, Michel (*with* Vergne, Michèle) Cohomologie équivariante et méthode de descente. II. (English and French summaries) [Equivariant cohomology and the method of descent. II] **94k:22026**
Esnault, Hélène Characteristic classes of flat bundles. II. (English summary) **94g:32039**
Fel'shtyn, A. L. The connection between the Reidemeister torsion, η-invariant, Rochlin invariant and theta multipliers via the dynamical zeta function. **94m:58229**
Ge, Zhong Betti numbers, characteristic classes and sub-Riemannian geometry. **94f:53038**
Getzler, Ezra The Thom class of Mathai and Quillen and probability theory. **94f:58122**
Gibbons, Gary W. (*with* Hawking, Stephen W.) Selection rules for topology change. (English summary) **94c:57042**
Glazebrook, James F. (*with* Kamber, Franz W.) Chiral anomalies and Dirac families in Riemannian foliations. (English summary) **94e:58132**
Göckeler, M. (*with* Kronfeld, A. S.; Schierholz, G.; Wiese, U.-J.) Continuum gauge fields from lattice gauge fields. (English summary) **94k:81199**
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Hirzebruch, Friedrich (*with* Berger, Thomas; Jung, Rainer) ★ Manifolds and modular forms. **94d:57001**
Husemoller, Dale ★ Fibre bundles. **94k:55001**
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Jung, Rainer *see* **Hirzebruch, Friedrich; et al., 94d:57001**
Kalkman, Jaap BRST model for equivariant cohomology and representatives for the equivariant Thom class. (English summary) **94h:58032**
Kamber, Franz W. *see* **Glazebrook, James F., 94e:58132**
Kelnhofer, Gerald On the geometrical structure of covariant anomalies in Yang-Mills theory. (English summary) **94m:81117**
Kreck, Matthias (*with* Stolz, Stephan) Nonconnected moduli spaces of positive sectional curvature metrics. (English summary) **94f:53066**
Kronfeld, A. S. *see* **Göckeler, M.; et al., 94k:81199**
Kubarski, Jan Characteristic classes of regular Lie algebroids—a sketch. **94m:58245**
Lehmann, Daniel Remarques sur la différence des degrés de deux applications. [Remarks on the difference between the degrees of two mappings] **94f:57024**
Liu, Kefeng On $SL_2(Z)$ and topology. (English summary) **94m:58214**
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Mitsumatsu, Yoshihiko On the self-intersections of foliation cycles. (English summary) **94c:57049**
Morita, Shigeyuki The structure of the mapping class group and characteristic classes of surface bundles. **94h:57023**
Moscovici, Henri (*with* Wu, Fangbing) Localization of topological Pontrjagin classes via finite propagation speed. (English and French summaries) **94i:58193**
Niemi, Antti J. (*with* Tirkkonen, Olav) Cohomological partition functions for a class of bosonic theories. (English summary) **94h:58159**
Phillips, Anthony V. (*with* Stone, David A.) A topological Chern-Weil theory. (English summary) **94b:55021**
Piccinni, Paolo On the infinitesimal automorphisms of quaternionic structures. (English summary) **94k:53048**
Reznikov, A. G. Harmonic maps, hyperbolic cohomology and higher Milnor inequalities. **94i:53036**
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Sedykh, V. D. Invariants of convex manifolds. (Russian) **94e:57031**
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Trofimov, V. V. Loop space and generalized Maslov classes of Lagrangian submanifolds. (Russian) **94b:58049**
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Zhang, Wei Ping[1] Spin^c-manifolds and Rokhlin congruences. (English and French summaries) **94i:57042**
— *see also* **Bismut, Jean-Michel, 94e:58131**

57R22 Topology of vector bundles and fiber bundles [see also 55Rxx]

Čadek, Martin (*with* Vanžura, Jiří) On oriented vector bundles over CW-complexes of dimension 6 and 7. (English summary) **94g:57030**
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Brandt, D. (*with* Hausmann, J.-C.) Théorie de jauge et symétries des fibrés. (English and French summaries) [Gauge theory and bundle symmetry] **94c:57056**
Cotfas, N. Topological manifolds and vector bundles with applications to crystal physics. (English summary) **94d:57065**
Hausmann, J.-C. *see* **Brandt, D., 94c:57056**
Hillman, Jonathan A. Geometries on 4-manifolds, Euler characteristic and elementary amenable groups. (English summary) **94b:57022**
Husemoller, Dale ★ Fibre bundles. **94k:55001**
Korbaš, Július Note on a generalization of the generalized vector field problem. (English summary) **94m:55018**
Phillips, Anthony V. (*with* Stone, David A.) A topological Chern-Weil theory. (English summary) **94b:55021**
Rietdijk, Rachel H. Supersymmetric quantum mechanics and the index theorem. (English summary) **94e:58134**
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Tiwari, Sanjay A signature theorem for disk bundles and the eta invariant. (English summary) **94g:58213**

57R25 Vector fields, frame fields

Girik, E. A. Vector fields with a given set of singularities on two-dimensional closed oriented manifolds. (Russian. English and Russian summaries) **94k:57041**
Gottlieb, Daniel Henry Vector fields and classical theorems of topology. (English and Italian summaries) **94g:57031**
Kim, Dae Kyung (*with* Song, Hyun-Jong) On the construction of independent sections of $T(S^{2m+1} \times S^n)$. **94m:57053**
Korbaš, Július (*with* Zvengrowski, Peter) The vector field problem: a survey with emphasis on specific manifolds. **94m:57054**
Lehmann, Daniel Remarques sur la différence des degrés de deux applications. [Remarks on the difference between the degrees of two mappings] **94f:57024**
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Items with secondary classifications in 57R25

Čadek, Martin (*with* Vanžura, Jiří) On oriented vector bundles over CW-complexes of dimension 6 and 7. (English summary) **94g:57030**
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Etayo Gordejuela, Fernando Drawing some vector fields on vector bundles. (English summary) **94j:53039**
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Piccinni, Paolo Vector fields and characteristic numbers on hyper-Kähler and quaternionic Kähler manifolds. (Italian. English and Italian summaries) **94c:57045**
Tsyganok, I. I. Singular points of a developable vector field. (Russian) **94g:57034**
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Watanabe, Nobuya On knotted preimages of submersions. **94f:57026**

57R27 Controllability of vector fields on C^∞ and real-analytic manifolds [see also 49Qxx, 58F40, 93B05]

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Aleshnikov, S. I. A method for the metrization of the orbit of a dynamical polysystem on a manifold. (Russian) **94e:58115**
Vakhrameev, S. F. The Fredholm property of a manifold. (Russian) **94b:58006**

57R30 Foliations; geometric theory

A'Campo, N. (*with* Kotschick, D.) Contact structures, foliations, and the fundamental group. **94j:57027**
Bangert, Victor Hypersurfaces without self-intersections in the torus. **94k:57042**
Candel, Alberto Uniformization of surface laminations. (English summary) **94f:57025**
Cantwell, John (*with* Conlon, Lawrence) Surgery and foliations of knot complements. (English summary) **94m:57055**
Cavalier, Vincent Pseudogroupes complexes quasi parallélisables. [Quasiparallelizable complex pseudogroups] **94h:57043**
Conlon, Lawrence *see* **Cantwell, John, 94m:57055**
Druck, S. (*with* Firmo, S.) Stability of compact leaves close to invariant fibered manifolds. (English summary) **94k:57043**
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El Kacimi-Alaoui, Aziz (*with* Nicolau, Marcel) On the topological invariance of the basic cohomology. **94c:57046**
van Est, W. T. Structures transverses et intégrales premières. Remarques. (English and French summaries) [Transverse structures and first integrals. Remarks] **94m:57056**
Fenley, Sérgio R. Quasi-isometric foliations. **94a:57044**
Firmo, S. *see* **Druck, S., 94k:57043**
Greenberg, Peter Generators and relations in the classifying space for pl foliations. (English summary) **94c:57047**
Inaba, Takashi (*with* Masuda, Kazuo) Tangentially affine foliations and leafwise affine functions on the torus. **94a:57045**
Kellum, Mark Uniformly quasi-isometric foliations. (English summary) **94c:57048**
Kotschick, D. *see* **A'Campo, N., 94j:57027**
Langevin, Rémi A list of questions about foliations. (English summary) **94m:57057**
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Naimi, Ramin Foliations transverse to fibers of Seifert manifolds. (English summary) **94m:57060**
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Pang, Peter Y. H. On the signature of generalised Seifert fibrations. (English summary) **94a:57046**
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Vogt, Elmar Existence of foliations of Euclidean spaces with all leaves compact. **94e:57045**
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Zhang, Yong Ping Fundamental group actions on product spaces of covering manifolds and spheres. (Chinese. English summary) **94c:57050**

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Adams, Scot Rank rigidity for foliations by manifolds of nonpositive curvature. (English summary) **94j:53035**
Aof, Mohamed El-Saeed Abbdel-Fattah (*with* Brown, Ronald) The holonomy groupoid of a locally topological groupoid. (English summary) **94e:22008**
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Brittenham, Mark Essential laminations in non-Haken 3-manifolds. (English summary) **94k:57027**
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Chinea, Domingo (*with* de León, Manuel; Marrero, Juan Carlos) Stability of invariant foliations on almost contact manifolds. (English summary) **94g:53023**
El Kacimi-Alaoui, Aziz (*with* Nicolau, Marcel) A class of C^∞-stable foliations. (English summary) **94m:58173**
— Un survol sur la théorie de Hodge-de Rham des variétés lisses et singulières. (French summary) [A survey of the Hodge-de Rham theory of smooth and singular manifolds] **94k:58001**
Escobales, Richard H., Jr. The mean curvature cohomology class for foliations and the infinitesimal geometry of the leaves. (English summary) **94k:53044**
Gabai, David (*with* Kazez, William H.) 3-manifolds with essential laminations are covered by solid tori. **94c:57028**
González-López, Artemio (*with* Hurtubise, Jacques C.; Kamran, Niky; Olver, Peter J.) Quantification de la cohomologie des algèbres de Lie de champs de vecteurs et fibrés en droites sur des surfaces complexes compactes. (English and French summaries) [Quantization of the cohomology of Lie algebras of vector fields and line bundles over compact complex surfaces] **94h:32047**
Grabowski, Janusz Lie algebras of vector fields and generalized foliations. (English summary) **94j:17024**
Harer, John L. *see* **Penner, Robert C., 94b:57018**
Hector, G. Une nouvelle obstruction à l'intégrabilité des variétés de Poisson régulières. (English summary) [A new obstruction to the integrability of regular Poisson manifolds] **94b:58114**
Hurder, Steven Topology of covers and the spectral theory of geometric operators. **94c:58203**
— A product theorem for $\Omega B\Gamma_G$. (English summary) **94c:57051**
— *see also* **Differential topology, foliations, and group actions, 94j:57003**
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57R77 Complex cobordism (U- and SU-cobordism) [see also 55N22]

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Armstrong, Peter The divisibility of normal Chern numbers. **94e:57041**
Bakuradze, M. R. (*with* Nadiradze, R. G.) Cohomological realizations of two-valued formal groups and their applications. (Russian) **94d:55011**
Cha, Joon-Sim Margolis homology and Morava K-theory for cohomology of the dihedral group. (English summary) **94g:55007**
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Rao, Vidhyanath K. Spin(n) is not homotopy nilpotent for $n \geq 7$. **94c:55009**
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Annals of Mathematics Studies *see* **Ravenel, Douglas C., 94b:55015**

57R85 Equivariant cobordism

Costenoble, Steven R. (*with* Steiner, Michael; Waner, Stefan) Fixed sets of unitary G-manifolds. (English summary) **94j:57031**
Das, A. K. (*with* Khare, S. S.) A product formula for cobcat and some calculations. (English summary) **94m:57068**
Hara, Tamio On Wall manifolds with almost free Z_{2^r} actions. **94a:57048**
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Liu, Zong Ze *see* **Yang, Hua Jian; et al., 94b:57041**
Sankaran, Parameswaran (*with* Varadarajan, K.) Group actions on flag manifolds and cobordism. (English summary) **94k:57050**
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Matić, Gordana *see* **Braam, Peter J., 94d:57063**
Wu, Zhen De *see* **Yang, Hua Jian; et al., 94a:57050**
Yang, Hua Jian (*with* Wu, Zhen De; Liu, Zong Ze) Involution number sequence and dimensions of the components in fixed point set of an involution. II. (English summary) **94a:57050**

57R90 Other types of cobordism [See 55N22]

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57R91 Equivariant algebraic topology of manifolds

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57R95 Realizing cycles by submanifolds

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Guo, Jian Han (*with* Gan, Dan Yan) Representing characteristic homology classes of $m\mathbf{CP}^2 \# n\overline{\mathbf{CP}}^2$. (English summary) **94j:57033**
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Saeki, Osamu On 4-manifolds homotopy equivalent to the 2-sphere. **94h:57033**

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Ueno, Keisuke Some new examples of eigenmaps from S^m into S^n. **94d:57061**
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Birmingham, Danny (*with* Rakowski, Mark) A star product in lattice gauge theory. (English summary) **94e:81225**
Bucher, Martin *see* **Benson, Katherine, 94g:83138**
tom Dieck, Tammo (*with* Petrie, Ted) Homology planes and algebraic curves. **94k:14038**
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Williams, Jeffrey George (*with* Zvengrowski, Peter) Homotopy classification of metrics in $2 + 1$ dimensions. (English summary) **94k:83057**
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57Sxx Topological transformation groups [see also 20F34, 22–XX, 54H15, 58D05]

57S05 Topological properties of groups of homeomorphisms or diffeomorphisms

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Triantafillou, Georgia Diffeomorphisms of manifolds with finite fundamental group. (English summary) **94j:57029**
Tsuboi, Takashi Rationality of piecewise linear foliations and homology of the group of piecewise linear homeomorphisms. **94a:57047**

57S10 Compact groups of homeomorphisms

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57S15 Compact Lie groups of differentiable transformations

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Dotzel, Ronald M. Equivariant maps for homology representations. (English summary) **94i:57055**
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Braam, Peter J. (*with* Matić, Gordana) The Smith conjecture in dimension four and equivariant gauge theory. (English summary) **94d:57063**
Casacuberta, Carles (*with* Dicks, Warren) On finite groups acting on acyclic complexes of dimension two. (English summary) **94c:55006**
Costenoble, Steven R. (*with* Steiner, Michael; Waner, Stefan) Fixed sets of unitary G-manifolds. (English summary) **94j:57031**
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Fine, Benjamin L. (*with* Triantafillou, Georgia) On the equivariant formality of Kähler manifolds with finite group action. (English summary) **94j:55010**
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You, Cheng Ye A Nielsen number product formula for pullbacks. (English and Chinese summaries) **94h:55005**

57S20 Noncompact Lie groups of transformations

Johnson, F. E. A. Extending group actions by finite groups. I. **94e:57055**
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Stark, C. W. Constraints on fundamental groups of mixed spaceforms. (English summary) **94m:57074**
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Yang, Hua Jian (*with* Wu, Zhen De; Liu, Zong Ze) Involution number sequence and dimensions of the components in fixed point set of an involution. II. (English summary) **94a:57050**

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Chen, Xi Geng Smooth involutions on $(S^{2^r})^2$. (English summary) **94m:57070**
Dunbar, William D. Nonfibering spherical 3-orbifolds. **94c:57022**
Funar, Louis Homology of $P(w_0, w_1, w_2)$. **94i:14028**
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Lee, Joo S. Almost periodic homeomorphisms and p-adic transformation groups on compact 3-manifolds. (English summary) **94g:57018**
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Orel, O. E. Topological analysis of a neighborhood of a degenerate one-dimensional orbit of a Poisson action in $\mathbf{R}^2$ on a symplectic manifold M^4. (Russian) **94m:58088**
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57S30 Discontinuous groups of transformations

Coornaert, Michel Mesures de Patterson-Sullivan sur le bord d'un espace hyperbolique au sens de Gromov. (French summary) [Patterson-Sullivan measures on the boundary of a hyperbolic space in the sense of Gromov] **94m:57075**
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— Margulis space-times. (*see* **94a:00011**)
— Linear holonomy of Margulis space-times. **94m:57076**
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Farrell, F. T. (*with* Jones, Lowell Edwin) Topological rigidity for compact non-positively curved manifolds. **94m:57067**
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Goldman, William M. (*with* Parker, John R.) Dirichlet polyhedra for dihedral groups acting on complex hyperbolic space. (English summary) **94d:32044**
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(de la Harpe, Pierre) *see* **Hyperbolic groups in the theory of Mikhael Gromov, 94m:53060**
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Jones, Lowell Edwin *see* **Farrell, F. T., 94m:57067**
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Molnár, Emil Klassifikation der hyperbolischen Dodekaederpflasterungen von maximalen Flächentransitiven Bewegungsgruppen. (English summary) [Classification of hyperbolic dodecahedron tilings of maximal face transitive groups of motions] **94h:52046**
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Potyagaĭlo, L. Finitely generated Kleinian groups in 3-space and 3-manifolds of infinite homotopy type. (English summary) **94m:57030**
Reznikov, A. G. Harmonic maps, hyperbolic cohomology and higher Milnor inequalities. **94i:53036**
Slutskin, Lev Classification of lifts of automorphisms of surfaces to the unit disk. (*see* **94d:55002**)
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Tetenov, A. V. The discontinuity set for a Kleinian group and topology of its Kleinian manifold. (English summary) **94d:30081**

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Hyperbolic groups in the theory of Mikhael Gromov ★ Гиперболические группы по Михаилу Громову. (Russian) [Hyperbolic groups in the theory of Mikhael Gromov] **94m:53060**
Seminar:
Hyperbolic Groups ★ Гиперболические группы по Михаилу Громову. (Russian) [Hyperbolic groups in the theory of Mikhael Gromov] **94m:53060**

57S99 None of the above, but in this section

Items with secondary classifications in 57S99

Ageev, S. M. Classification of G-spaces. (Russian. Russian summary) **94e:57053**
Armstrong, M. A. Lifting group actions to covering spaces. **94b:57004**
Brown, Robert F. Wecken properties for manifolds. **94e:55002**
Carlotti, Mario V-manifold maps and the inverse mapping theorem. (Italian summary) **94j:58022**
Hauschild, Volker Effective actions and Weyl degrees of compact Lie groups. **94k:55017**
James, Ioan M. (*with* Zhang, Ping[1]) Fibrewise transformation groups and fibre-bundles. (English summary) **94c:55021**
Moszner, Zenon Sur l'équation du comitant. [On the comitant equation] **94j:22012**
Woess, Wolfgang Fixed sets and free subgroups of groups acting on metric spaces. **94m:54093**
Woo, Moo Ha (*with* Yoon, Yeon Soo) A certain subgroup of the fundamental group of a transformation group. **94c:55003**
Yoon, Yeon Soo *see* **Woo, Moo Ha, 94c:55003**
Zhang, Ping[1] *see* **James, Ioan M., 94c:55021**

57Txx Homology and homotopy of topological groups and related structures

57T05 Hopf algebras [see also 16W30]

Items with secondary classifications in 57T05

Chakrabarti, Amitabha Canonical structure in $\mathrm{SO}(4)_q$ and relations to $\mathrm{E}(3)_q$ and $\mathrm{SO}(3,1)_q$. (English summary) **94g:81068**
Félix, Yves (*with* Halperin, Stephen; Thomas, Jean-Claude) The category of a map and the grade of a module. (English summary) **94e:55021**
Halperin, Stephen *see* **Félix, Yves; et al., 94e:55021**
Lukierski, Jerzy (*with* Nowicki, Anatol Andrzej; Ruegg, Henri) Quantum Poincaré algebra with standard real structure. (English summary) **94g:17041**
Nowicki, Anatol Andrzej *see* **Lukierski, Jerzy; et al., 94g:17041**
Ruegg, Henri *see* **Lukierski, Jerzy; et al., 94g:17041**
Shank, R. James Lannes' T functor on Hopf algebras over the Steenrod algebra with applications to Carlsson modules and twisted algebras. **94a:55010**
Thomas, Jean-Claude *see* **Félix, Yves; et al., 94e:55021**
Turaev, V. G. Skein quantization of Poisson algebras of loops on surfaces. **94a:57023**

57T10 Homology and cohomology of Lie groups

Broto, Carlos (*with* Henn, Hans-Werner) Some remarks on central elementary abelian p-subgroups and cohomology of classifying spaces. **94c:57060**
Henn, Hans-Werner *see* **Broto, Carlos, 94c:57060**
Kono, Akira[1] (*with* Kozima, Kazumoto) The adjoint action of a Lie group on the space of loops. **94h:57053**
Kozima, Kazumoto *see* **Kono, Akira[1], 94h:57053**
Moreno, Guillermo The Hurewicz homomorphism of the compact exceptional Lie group E_6. (English summary) **94f:57029**

Items with secondary classifications in 57T10

Brylinski, Jean-Luc The degeneracy of two spectral sequences. **94m:55021**
Hitta, Amara On the continuous (co)homology of locally profinite groups and the Künneth theorem. **94m:22004**
Kuribayashi, Katsuhiko The cohomology ring of the spaces of loops on Lie groups and homogeneous spaces. (English summary) **94m:55007**
Macías, Enrique Homotopy groups in Lie foliations. (English summary) **94m:57058**
Minami, Haruo On the K-theory of PE_7. **94i:55009**
Nash, Charles (*with* O'Connor, Denjoe; Sen, Siddhartha[1]) Central extensions of sphere groups and their Lie algebras. (English summary) **94i:22043**
O'Connor, Denjoe *see* **Nash, Charles; et al., 94i:22043**
Sen, Siddhartha[1] *see* **Nash, Charles; et al., 94i:22043**

57T15 Homology and cohomology of homogeneous spaces of Lie groups

Singhof, W. On the topology of double coset manifolds. **94k:57054**
Watanabe, Takashi On the Chern character of symmetric spaces related to $\mathrm{SU}(n)$. **94m:57077**

Items with secondary classifications in 57T15

Christophoridou, Chryssi *see* **Tsagas, Gr. F., 94e:58025**
Tsagas, Gr. F. (*with* Christophoridou, Chryssi) The cup length of a special flag manifold related to the closed geodesics of another manifold. **94e:58025**

57T20 Homotopy groups of topological groups and homogeneous spaces

Items with secondary classifications in 57T20

Macías, Enrique Nonclosed Lie subgroups of Lie groups. (English summary) **94a:22015**
— Homotopy groups in Lie foliations. (English summary) **94m:57058**

57T25 Homology and cohomology of H-spaces

Jeanneret, Alain Algebras over the Steenrod algebra and finite H-spaces. **94e:57056**

Items with secondary classifications in 57T25

Duan, Hai Bao A characteristic polynomial for self-maps of H-spaces. **94j:55003**
Notbohm, Dietrich (*with* Smith, Larry) Rational homotopy of the space of homotopy equivalences of a flag manifold. **94c:55012**
Smith, Larry *see* **Notbohm, Dietrich, 94c:55012**

57T30 Bar and cobar constructions [see also 18G55, 55Uxx]

Items with secondary classifications in 57T30

Phillips, Anthony V. (*with* Stone, David A.) A topological Chern-Weil theory. (English summary) **94b:55021**
Smith, Justin R. Iterating the cobar construction. **94j:55021**
Stone, David A. *see* **Phillips, Anthony V., 94b:55021**

57T35 Applications of Eilenberg-Moore spectral sequences [see also 55R20, 55T20]

Items with secondary classifications in 57T35

Singhof, W. On the topology of double coset manifolds. **94k:57054**

57T99 None of the above, but in this section

Oliver, Robert p-stubborn subgroups of classical compact Lie groups. (English summary) **94k:57055**
Yagita, Nobuaki Homotopy nilpotency for simply connected Lie groups. **94i:57060**

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Cohen, F. R. Mapping class groups and classical homotopy theory. **94i:57004**
Dwyer, William G. (*with* Jekel, Solomon M.; Suciu, Alexander I.) Homology isomorphisms between algebraic groups made discrete. **94f:20097**
Jekel, Solomon M. *see* **Dwyer, William G.; et al., 94f:20097**
Kapranov, M. M. The permutoassociahedron, Mac Lane's coherence theorem and asymptotic zones for the KZ equation. (English summary) **94b:52017**
Lian, Bong H. (*with* Zuckerman, Gregg J.) New perspectives on the BRST-algebraic structure of string theory. (English summary) **94e:81333**
Suciu, Alexander I. *see* **Dwyer, William G.; et al., 94f:20097**
Zuckerman, Gregg J. *see* **Lian, Bong H., 94e:81333**

58-XX Global analysis, analysis on manifolds [see also 32Cxx, 32Fxx, 46-XX, 47Hxx, 53Cxx; for geometric integration theory, see 49Q15]

58-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Stewart, H. Bruce *see* **Thompson, J. M. T., 94i:58001**
Thompson, J. M. T. (*with* Stewart, H. Bruce) A tutorial glossary of geometrical dynamics. (English summary) **94i:58001**

Items with secondary classifications in 58-00

(Alexander, Carol) *see* **Handbook: Applicable mathematics, 94j:00005**
(Ledermann, Walter) *see* **Handbook: Applicable mathematics, 94j:00005**
(Lloyd, Emlyn) *see* **Handbook: Applicable mathematics, 94j:00005**
(Vajda, Steven) *see* **Handbook: Applicable mathematics, 94j:00005**

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Handbook:
Applicable mathematics ★ Handbook of applicable mathematics. Supplement. **94j:00005**

58-01 Instructional exposition (textbooks, tutorial papers, etc.)

Conlon, Lawrence ★ Differentiable manifolds: a first course. (English summary) **94d:58001**
Doughty, Noel A. ★ Lagrangian interaction. **94c:58001**
Xu, Sen Lin (*with* Xue, Chun Hua) ★ Liuxing. (Chinese. Chinese summary) [Manifolds] **94e:58001**
Xue, Chun Hua *see* **Xu, Sen Lin, 94e:58001**

Items with secondary classifications in 58-01

Bröcker, Theodor ★ Analysis. III. (German. German summary) **94c:00001c**
Devaney, Robert L. ★ A first course in chaotic dynamical systems. (English summary) **94a:58124**
Dodson, C. T. J. (*with* Poston, T.) ★ Tensor geometry. **94c:53001**
Drazin, Philip G. ★ Nonlinear systems. **94a:58062**
Engelbrecht, Jüri K. (*with* Uus, Anu) ★ Mittelineaarne dünaamika ja kaos. (Estonian) [Nonlinear dynamics in chaos] **94i:58122**
Ferrier, Jean-Pierre ★ Mathématiques pour la licence. (French. French summary) [Mathematics for the Bachelor's Degree] **94m:00002**
Field, Michael (*with* Golubitsky, Martin) ★ Symmetry in chaos. **94b:58069**
Golubitsky, Martin *see* **Field, Michael, 94b:58069**
Gotay, Mark J. (*with* Isenberg, James A.) La symplectification de la science (la géométrie symplectique aux fondements de la physique et des mathématiques). [The symplectification of science (symplectic geometry and the foundations of physics and mathematics)] **94e:00011**
Griffiths, H. Brian (*with* Oldknow, Adrian) ★ Mathematics of models: continuous and discrete dynamical systems. (English summary) **94g:34002**
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Kartsatos, Athanassios G. ★ Advanced ordinary differential equations. **94m:34001**
Lang, Serge ★ Real and functional analysis. (English summary) **94b:00005**
Luo, Ding Jun (*with* Teng, Li Bang) ★ Qualitative theory of dynamical systems. **94k:58043**
Matolcsi, Tamás ★ Spacetime without reference frames. (English summary) **94j:83001**
(Miider, Veiko) *see* **Engelbrecht, Jüri K., 94i:58122**
Novikov, S. P. Integrability in mathematics and theoretical physics: solitons. **94e:58061**
Oldknow, Adrian *see* **Griffiths, H. Brian, 94g:34002**
Poston, T. *see* **Dodson, C. T. J., 94c:53001**
Talpaert, Yves ★ Leçons et applications de géométrie différentielle et de mécanique analytique. (French) [Lessons and applications of differential geometry and analytical mechanics] **94a:53001**
Teng, Li Bang *see* **Luo, Ding Jun, 94k:58043**
Uus, Anu *see* **Engelbrecht, Jüri K., 94i:58122**

58-02 Research exposition (monographs, survey articles)

Gaponov-Grekhov, A. V. (*with* Rabinovich, M. I.) ★ Nonlinearities in action. **94f:58001**
(Lauterborn, Werner) *see* **Gaponov-Grekhov, A. V., 94f:58001**
Rabinovich, M. I. *see* **Gaponov-Grekhov, A. V., 94f:58001**

Items with secondary classifications in 58-02

Balazs, Nandor L. General introduction. **94f:81038**
Bismut, Jean-Michel From Quillen metrics to Reidemeister metrics: some aspects of the Ray-Singer analytic torsion. **94e:58144**
Bourguignon, Jean-Pierre The "magic" of Weitzenböck formulas. **94a:58181**
Dezin, A. A. ★ Многомерный анализ и дискретные модели. (Russian) [Multidimensional analysis and discrete models] **94d:00010**
(Gaponov-Grekhov, A. V.) *see* **Nettel, Stephen, 94h:00005**
(Gutzwiller, Martin C.) *see* **Nettel, Stephen, 94h:00005**
Marsden, Jerrold E. Steve Smale and geometric mechanics. **94i:58068**
Nettel, Stephen ★ Wave physics. (English summary) **94h:00005**
Novikov, S. P. Rôle of integrable models in the development of mathematics. (English summary) (*see* **94j:00018**)
(Rabinovich, M. I.) *see* **Nettel, Stephen, 94h:00005**
Ratiu, Tudor S. Smale's topological program in mechanics and convexity. **94k:58050**
Smale, Stephen On how I got started in dynamical systems, 1959–1962. (*see* **94f:00026**)
Yau, Shing-Tung The current state and prospects of geometry and nonlinear differential equations. (English summary) (*see* **94j:00018**)
Zhang, Gong Qing ★ Infinite-dimensional Morse theory and multiple solution problems. **94e:58023**

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Fermat Prize Prix Fermat 1989. [The Fermat Prize 1989] **94b:01039**

58-03 Historical (must also be assigned at least one classification number from Section 01)

Palis, Jacob On the contribution of Smale to dynamical systems. **94g:58001**

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(Czichowski, Günter) *see* **Lie, Sophus; et al., 94e:01034**
Engel, F. *see* **Lie, Sophus; et al., 94e:01034**
(Fritzsche, Bernd) *see* **Lie, Sophus; et al., 94e:01034**
Ibragimov, N. Kh. Group analysis of ordinary differential equations and the invariance principle in mathematical physics (on the occasion of the 150th anniversary of the birth of Sophus Lie). (Russian. Russian summary) **94d:58130**
Lie, Sophus (*with* Study, E.; Engel, F.) ★ Beiträge zur Theorie der Differentialinvarianten. (German. German summary) [Contributions to the theory of differential invariants] **94e:01034**
— *see also* **Ibragimov, N. Kh., 94d:58130**
(Martinet, Jean) *see* **Ramis, Jean-Pierre, 94m:01035**
Ramis, Jean-Pierre Les derniers travaux de Jean Martinet. (English summary) [The last works of Jean Martinet] **94m:01035**
Study, E. *see* **Lie, Sophus; et al., 94e:01034**

58-04 Explicit machine computation and programs (not the theory of computation or programming)

Steeb, Willi-Hans ★ Chaos and fractals. (English summary) **94g:58002**
(van Wyk, Michaël Antonie) *see* **Steeb, Willi-Hans, 94g:58002**

Items with secondary classifications in 58-04

Bunimovich, L. A. (*with* Livi, Roberto; Martínez-Mekler, G.; Ruffo, Stefano) Coupled trivial maps. (English summary) **94b:58040**
Calmet, Jacques *see* **Schü, Joachim; et al., 94j:58185**
Gatermann, Karin Computation of bifurcation graphs. (English summary) **94h:65052**
Jauslin, H. R. Numerical implementation of a K.A.M. algorithm. (English summary) **94e:58119**
Kaluža, Matjaž Program for Birkhoff-Gustavson normal form for N degrees of freedom—BIRKHOFF 1.2. (English summary) **94a:58168**
Livi, Roberto *see* **Bunimovich, L. A.; et al., 94b:58040**
Martínez-Mekler, G. *see* **Bunimovich, L. A.; et al., 94b:58040**
Ruffo, Stefano *see* **Bunimovich, L. A.; et al., 94b:58040**
Schü, Joachim (*with* Seiler, Werner M.; Calmet, Jacques) Algorithmic methods for Lie pseudogroups. (English summary) **94j:58185**
Seiler, Werner M. *see* **Schü, Joachim; et al., 94j:58185**

58-06 Proceedings, conferences, collections, etc.

(Abraham, Neal B.) *see* **Proceedings: Workshop on Measures of Complexity and Chaos, 94f:58005**
(Albano, Alfonso M.) *see* **Proceedings: Workshop on Measures of Complexity and Chaos, 94f:58005**
(Allgower, Eugene L.) *see* **Bifurcation and symmetry, 94f:58002** *and* **Exploiting symmetry in applied and numerical analysis, 94f:58003**
(Babelon, Olivier) *see* **Integrable systems, 94m:58001**
(Böhmer, Klaus) *see* **Bifurcation and symmetry, 94f:58002**
(Cartier, Pierre) *see* **Integrable systems, 94m:58001**

(Enos, Michael J.) *see* Dynamics and control of mechanical systems, 94b:58001
(Georg, Kurt) *see* Exploiting symmetry in applied and numerical analysis, 94f:58003
(Gilmore, Robert) *see* Proceedings: Workshop on Measures of Complexity and Chaos, 94f:58005
(Golubitsky, Martin) *see* Bifurcation and symmetry, 94f:58002
(Kawakami, Hiroshi) *see* Some problems on the theory of dynamical systems in applied sciences, 94d:58002
(Kim, Hong-Jong) *see* Proceedings: Workshop on Geometry and Topology, 94j:58001
(Kim, Jong Hyun) *see* Applied chaos, 94c:58002
(Kosmann-Schwarzbach, Yvette) *see* Integrable systems, 94m:58001
(Kuksin, S. B.) *see* Seminar: Dynamical Systems, 94m:58002
(Lazutkin, V. F.) *see* Seminar: Dynamical Systems, 94m:58002
(Miranda, Rick) *see* Exploiting symmetry in applied and numerical analysis, 94f:58003
(Passamante, Anthony) *see* Proceedings: Workshop on Measures of Complexity and Chaos, 94f:58005
(Pöschel, Jürgen) *see* Seminar: Dynamical Systems, 94m:58002
(Rapp, Paul E.) *see* Proceedings: Workshop on Measures of Complexity and Chaos, 94f:58005
(Schlomiuk, Dana) *see* Bifurcations and periodic orbits of vector fields, 94h:58001
(Shil'nikov, L. P.) *see* Methods in qualitative theory and bifurcation theory, 94i:58002
(Stringer, John) *see* Applied chaos, 94c:58002
(Taylor, Jean E.) *see* Workshop: Computational Crystal Growers, 94f:58007
(Verdier, Jean-Louis) *see* Integrable systems, 94m:58001

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Applied chaos ★ Applied chaos. **94c:58002**
Bifurcation and symmetry ★ Bifurcation and symmetry. **94f:58002**
Bifurcations and periodic orbits of vector fields ★ Bifurcations and periodic orbits of vector fields. **94h:58001**
Bryn Mawr, PA ★ Proceedings of the Second Workshop on Measures of Complexity and Chaos. **94f:58005**
Conference:
  Bifurcation and Symmetry: Cross Influences Between Mathematics and Applications ★ Bifurcation and symmetry. **94f:58002**
  Integrable Systems ★ Integrable systems. **94m:58001**
Current problems in mathematics. Newest results ★ Current problems in mathematics. Newest results. Vol. 38. **94a:58001**
Dynamics and control of mechanical systems ★ Dynamics and control of mechanical systems. **94b:58001**
Exploiting symmetry in applied and numerical analysis ★ Exploiting symmetry in applied and numerical analysis. **94f:58003**
Fort Collins, CO ★ Exploiting symmetry in applied and numerical analysis. **94f:58003**
Integrable systems ★ Integrable systems. **94m:58001**
Kyoto ★ Some problems on the theory of dynamical systems in applied sciences. **94d:58002**
— ★ Jitsu tokuiten to jitsu daisū kika. [Real singularities and real algebraic geometry] **94f:58006**
Luminy ★ Integrable systems. **94m:58001**
Marburg ★ Bifurcation and symmetry. **94f:58002**
Methods in qualitative theory and bifurcation theory ★ Методы качественной теории и теории бифуркаций. (Russian) [Methods in qualitative theory and bifurcation theory] **94i:58002**
Minneapolis, MN ★ Computational Crystal Growers Workshop. **94f:58007**
Montreal, PQ ★ Bifurcations and periodic orbits of vector fields. **94h:58001**
NATO Advanced Study Institute:
  Bifurcations and Periodic Orbits of Vector Fields ★ Bifurcations and periodic orbits of vector fields. **94h:58001**
Obituary:
  Verdier, Jean-Louis ★ Integrable systems. **94m:58001**
On the equivariant cohomology of differentiable manifolds ★ Sur la cohomologie équivariante des variétés différentiables. (French) [On the equivariant cohomology of differentiable manifolds] **94f:58004**
Proceedings:
  Workshop on Geometry and Topology ★ Proceedings of GARC Workshop on Geometry and Topology '93. **94j:58001**
  Workshop on Measures of Complexity and Chaos ★ Proceedings of the Second Workshop on Measures of Complexity and Chaos. **94f:58005**
Progress in Mathematics ★ Integrable systems. **94m:58001**
Real singularities and real algebraic geometry ★ Jitsu tokuiten to jitsu daisū kika. [Real singularities and real algebraic geometry] **94f:58006**
Research on bifurcation in low-dimensional dynamical systems ★ Teijigen rikigakkei ni okeru bunki no kenkyū. (Japanese) [Research on bifurcation in low-dimensional dynamical systems] **94h:58002**
San Francisco, CA ★ Applied chaos. **94c:58002**
Seminar:
  Applied Mathematics ★ Exploiting symmetry in applied and numerical analysis. **94f:58003**
  Bifurcations and Periodic Orbits of Vector Fields ★ Bifurcations and periodic orbits of vector fields. **94h:58001**
  Dynamical Systems ★ Seminar on Dynamical Systems. **94m:58002**
Seoul ★ Proceedings of GARC Workshop on Geometry and Topology '93. **94j:58001**
Some problems on the theory of dynamical systems in applied sciences ★ Some problems on the theory of dynamical systems in applied sciences. **94d:58002**
St. Petersburg ★ Seminar on Dynamical Systems. **94m:58002**
State of the art and perspectives of studies on nonlinear integrable systems ★ Hisenkei kasekibun kei no kenkyū no genjō to tembō. (Japanese) [State of the art and perspectives of studies on nonlinear integrable systems] **94h:58002**
Structure and bifurcation of dynamical systems ★ Rikigakkei no kōzō to bunki. (Japanese) [Structure and bifurcation of dynamical systems] **94b:58003**
Sur la cohomologie équivariante des variétés différentiables ★ Sur la cohomologie équivariante des variétés différentiables. (French) [On the equivariant cohomology of differentiable manifolds] **94f:58004**
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  Real Singularities and Real Algebraic Geometry ★ Jitsu tokuiten to jitsu daisū kika. [Real singularities and real algebraic geometry] **94f:58006**
  Research on Bifurcation in Low-Dimensional Dynamical Systems ★ Teijigen rikigakkei ni okeru bunki no kenkyū. (Japanese) [Research on bifurcation in low-dimensional dynamical systems] **94h:58002**
  Some Problems on the Theory of Dynamical Systems in Applied Sciences ★ Some problems on the theory of dynamical systems in applied sciences. **94d:58002**
  State of the Art and Perspectives of Studies on Nonlinear Integrable Systems ★ Hisenkei kasekibun kei no kenkyū no genjō to tembō. (Japanese) [State of the art and perspectives of studies on nonlinear integrable systems] **94h:58002**
  Structure and Bifurcation of Dynamical Systems ★ Rikigakkei no kōzō to bunki. (Japanese) [Structure and bifurcation of dynamical systems] **94b:58003**
  Topics Around Chaotic Dynamical Systems ★ Kaosu o meguru rikigakkei no sho mondai. (Japanese) [Topics on chaotic dynamical systems] **94g:58003**
Topics around chaotic dynamical systems ★ Kaosu o meguru rikigakkei no sho mondai. (Japanese) [Topics on chaotic dynamical systems] **94g:58003**
Waterloo, ON ★ Dynamics and control of mechanical systems. **94b:58001**
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  Applications of Chaos ★ Applied chaos. **94c:58002**
  Computational Crystal Growers ★ Computational Crystal Growers Workshop. **94f:58007**
  Geometry and Topology ★ Proceedings of GARC Workshop on Geometry and Topology '93. **94j:58001**
  Measures of Complexity and Chaos ★ Proceedings of the Second Workshop on Measures of Complexity and Chaos. **94f:58005**
  The Falling Cat and Related Problems ★ Dynamics and control of mechanical systems. **94b:58001**

Items with secondary classifications in 58–06

(Arnol'd, V. I.) *see* Dynamical systems, 94h:58069 *and* Developments in mathematics: the Moscow schoo', 94i:00009
(Arraut, José Luis) *see* Differential topology, foliations, and group actions, 94j:57003
(Borisovich, Yu. G.) *see* Global analysis—studies and applications, 94d:00013
(Borowiec, Andrzej) *see* Infinite-dimensional geometry in physics, 94b:00039
(Bureš, Jarolím) *see* Proceedings: School "Geometry and Physics", 94f:00032
(Casati, Giulio) *see* Quantum chaos, 94e:81067
(Catto, Sultan) *see* Proceedings: Conference on Differential Geometric Methods in Theoretical Physics, 94a:00013
(Christiansen, Peter Leth) *see* Future directions of nonlinear dynamics in physical and biological systems, 94h:00020
(Clarkson, Peter A.) *see* Applications of analytic and geometric methods to nonlinear differential equations, 94h:35003
(Comte, P.) *see* Topological aspects of the dynamics of fluids and plasmas, 94b:76005
(Ditto, William) *see* Proceedings: Experimental Chaos Conference, 94h:58124
(Eilbeck, J. Chris) *see* Future directions of nonlinear dynamics in physical and biological systems, 94h:00020
(Fomenko, A. T.) *see* Minimal surfaces, 94b:53002
(Fox, Jeffrey) *see* Index theory and operator algebras, 94b:00038
(Furi, Massimo) *see* Topological methods for ordinary differential equations, 94b:47082
(Fushchich, V. I.) *see* Symmetry analysis of equations of mathematical physics, 94c:35004
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(Gliklikh, Yu. E.) *see* Global analysis—studies and applications, 94d:00013 *and* Methods and applications of global analysis, 94m:00017
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(Hao, Bai Lin) *see* Experimental study and characterization of chaos, 94h:58123
(Haskell, Peter) *see* Index theory and operator algebras, 94b:00038
(Helminck, G. F.) *see* Geometric and quantum aspects of integrable systems, 94f:00027
(Hurder, Steven) *see* Differential topology, foliations, and group actions, 94j:57003
(Ibort, Luis A.) *see* Integrable systems, quantum groups, and quantum field theories, 94i:81002
(Ibragimov, N. Kh.) *see* Modern group analysis: advanced analytical and computational methods in mathematical physics, 94i:35003
(Kaneko, Kunihiko) *see* Theory and applications of coupled map lattices, 94g:58060
(Kapitaniak, Tomasz) *see* Chaotic oscillators, 94m:58150
(Kowalski, Oldřich) *see* Differential geometry and its applications, 94h:53003
(Kreuzer, E. J.) *see* Conference: Nonlinear Oscillations, 94d:34003
(Krupka, D.) *see* Differential geometry and its applications, 94h:53003
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58Axx General theory of differentiable manifolds

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58A03 Topos-theoretic approach to differentiable manifolds

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— (*with* Stoica, Lucretiu) Some remarks on a theorem of type Van Est. (Romanian summary) (*see* **94j:00024**)
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58A12 de Rham theory [see also 14Fxx]

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58A14 Hodge theory [see also 14C30, 14Fxx, 32J25, 32S35]

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58A17 Pfaffian systems

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58A25 Currents [see also 32C30, 53C65]

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58A35. Stratified sets [see also 32S60, 58C27]

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58A40 Differential spaces

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58A50 Supermanifolds and graded manifolds [see also 14A22, 32C11]

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— A correspondence between finite-dimensional Lie superalgebras and supergroups. **94j:58012**
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58B05 Homotopy and topological questions

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58B10 Differentiability questions

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58B12 Questions of holomorphy [see also 32–XX, 46G20]

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Monadi, A. (*with* Nel, Louis Daniel[1]) Holomorphy in convergence spaces. (English summary) **94h:46070**
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58B15 Fredholm structures [see also 47A53]

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— Loop groups and Fredholm operators. **94a:58009**
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58B20 Riemannian, Finsler and other geometric structures [see also 53C20, 53C60]

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Corach, Gustavo (*with* Porta, Horacio A.; Recht, Lázaro) The geometry of the space of selfadjoint invertible elements in a C^*-algebra. **94d:58010**
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Manoharan, Palanivel The equivariant de Rham theorem on Fréchet S^1-manifolds. (English summary) **94h:58016**
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58B99 None of the above, but in this section

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58Cxx Calculus on manifolds; nonlinear operators [see also 47Hxx]

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58C05 Real-valued functions

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58C15 Implicit function theorems; global Newton methods

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Zampieri, Gaetano On the inversion of smooth functions. (English summary) (*see* **94e:00020**)

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58C20 Differentiation theory (Gateaux, Fréchet, etc.) [see also 26Exx, 46G05]

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Aubin, Jean-Pierre Mutational equations in metric spaces. (English summary) **94h:34020**
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58D05 Groups of diffeomorphisms and homeomorphisms as manifolds [see also 22E65, 57S05]

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Bloch, Anthony (*with* Flaschka, H.; Ratiu, Tudor S.) A Schur-Horn-Kostant convexity theorem for the diffeomorphism group of the annulus. (English summary) **94i:58063**
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58D17 Manifolds of metrics (esp. Riemannian)

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Kondracki, Witold (*with* Kozak, Michal) The properties of the action of the quasi-gauge group on the space of Kaluza-Klein Riemannian metrics. I. Existence of the tubular neighbourhood. (English summary) **94a:58029**
— (*with* Kozak, Michal) The properties of the action of the quasi-gauge group on the space of Kaluza-Klein Riemannian metrics. II. The stratification theorem. (English summary) **94a:58030**
Kozak, Michal *see* **Kondracki, Witold, 94a:58029** *and* **94a:58030**
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Śniatycki, Jędrzej Geometry of minisuperspace. (English summary) **94f:58022**
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Fathi, A. (*with* Flaminio, Livio) Infinitesimal conjugacies and Weil-Petersson metric. (English and French summaries) **94c:58149**
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Neuwirther, M. Submanifold geometry and Hessians on the pseudo-Riemannian manifold of metrics. (English summary) **94j:58017**
Ohara, Atsumi Dual connections towards information geometry of stable state feedback systems. (English summary) **94m:93032**
Rosquist, Kjell (*with* Uggla, Claes) Visualizing minisuperspace dynamics. (English summary) **94h:83010**
Uggla, Claes *see* **Rosquist, Kjell, 94h:83010**
Wu, Siye Appearance of universal bundle structure in four-dimensional topological gravity. (English summary) **94h:58037**
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58D19 Group actions and symmetry properties

Gaeta, Giuseppe Michel's theorem and critical sections of gauge functionals. **94k:58020**
Kalkman, Jaap BRST model for equivariant cohomology and representatives for the equivariant Thom class. (English summary) **94h:58032**
Margalef Roig, Juan (*with* Outerelo Domínguez, Enrique) Lie group actions over manifolds with corners. (English summary) **94h:58033**
Outerelo Domínguez, Enrique *see* **Margalef Roig, Juan, 94h:58033**

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Feres, Renato Connection preserving actions of lattices in $SL_n\mathbf{R}$. (English summary) **94a:58039**
Fine, Dana Quantum Yang-Mills on a Riemann surface. (English summary) **94d:58025**
Hazewinkel, Michiel Symmetry problems (symmetrical problems and problems in understanding symmetry). (Dutch) **94e:52020**
Kondracki, Witold (*with* Kozak, Michal) The properties of the action of the quasi-gauge group on the space of Kaluza-Klein Riemannian metrics. I. Existence of the tubular neighbourhood. (English summary) **94a:58029**
— (*with* Kozak, Michal) The properties of the action of the quasi-gauge group on the space of Kaluza-Klein Riemannian metrics. II. The stratification theorem. (English summary) **94a:58030**
Kozak, Michal *see* **Kondracki, Witold, 94a:58029** *and* **94a:58030**
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Wu, Siye Cohomological obstructions to the equivariant extension of closed invariant forms. (English summary) **94g:55010**

58D20 Measures (Gaussian, cylindrical, etc.) on manifolds of maps [See 28Cxx]

Albeverio, Sergio (*with* Brzeźniak, Zdzisław) Finite-dimensional approximation approach to oscillatory integrals and stationary phase in infinite dimensions. (English summary) **94g:58031**
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Fine, Dana Quantum Yang-Mills on a Riemann surface. (English summary) **94d:58025**
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— The Yang-Mills measure for the two-sphere. **94g:58032**
— Quantum gauge theory on compact surfaces. (English summary) **94b:58021**
— Gauge invariant functions of connections. (English summary) **94i:58032**
Tsujii, Masato A measure on the space of smooth mappings and dynamical system theory. (*see* **94d:58002**)

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Antonyuk, A. Val. (*with* Antonyuk, A. Vikt.) Gibbs measures on the infinite product of manifolds and Hermitian realizations of formal Hamiltonians. (English summary) **94d:82004**
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Fischer, Werner (*with* Leschke, Hajo; Müller, Peter) Path integration in quantum physics by changing the drift of the underlying diffusion process: applications of Legendre processes. (English summary) **94j:81134**
Forman, Robin Small volume limits of 2-d Yang-Mills. (English summary) **94d:58157**
Léandre, Rémi Integration by parts formulas and rotationally invariant Sobolev calculus on free loop spaces. (English summary) **94e:60053**
Leschke, Hajo *see* **Fischer, Werner; et al., 94j:81134**
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Quas, Anthony N. Representation of Markov chains on tori. (English summary) **94a:58114**
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Socolovsky, M. Ghost fields in principal bundles. (English summary) **94g:58035**
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58D25 Equations in function spaces; evolution equations [see also 34Gxx, 35K22, 35R15, 47H15]

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Chueshov, I. D. Approximate inertial manifolds for second order evolution equation. (Russian and Ukrainian summaries) **94g:34102**
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Dorfmeister, Josef Banach manifolds of solutions to nonlinear partial differential equations, and relations with finite-dimensional manifolds. **94i:58080**
Favini, Angelo (*with* Lasiecka, Irena; Tanabe, T.) Abstract differential equations and nonlinear dispersive systems. **94e:34064**
Il'in, A. A. On the dimension of attractors for Navier-Stokes equations on two-dimensional compact manifolds. (English summary) **94c:35140**

Khrennikov, A. Yu. The Feynman-Kac formula on a phase superspace. I. (Russian. Russian summary) **94d:58022**
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— (*with* Cianci, Roberto) Nonlinear evolution equations with (1, 1)-supersymmetric time. (Russian. English and Russian summaries) **94k:35004**
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Magadeev, B. A. Group classification of nonlinear evolution equations. (Russian. Russian summary) **94h:35008**
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Zharinov, V. V. On spectral sequences of evolution systems with constraints. (Russian. Russian summary) **94k:58161**

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Atiyah, Michael (*with* Manton, N. S.) Geometry and kinematics of two skyrmions. (English summary) **94h:58034**
Baadhio, Randy A. Global gravitational anomaly-free topological field theory. (English summary) **94k:58021**
Biswas, I. (*with* Guruprasad, K.) Principal bundles on open surfaces and invariant functions on Lie groups. **94i:58033**
Boyer, Charles P. (*with* Mann, Benjamin M.) The hyper-Kähler geometry of the ADHM construction and quaternionic geometric invariant theory. (English summary) **94d:58026**
Fischer, H. R. (*with* Fisher, Robert J., Jr.) Isotropies of partial connections and a theorem of Morimoto. (English summary) **94g:58033**
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Guruprasad, K. Flat connections, geometric invariants and the symplectic nature of the fundamental group of surfaces. (English summary) **94k:58022**
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Harvey, Jeffrey A. (*with* Strominger, Andrew) String theory and the Donaldson polynomial. (English summary) **94b:58022**
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Leese, R. A. (*with* Samols, T. M.) Interaction of semilocal vortices. (English summary) **94d:58028**
Li, Jun The space of surface group representations. (English summary) **94c:58022**
Lübke, Martin (*with* Okonek, Christian; Schumacher, Georg) On a relative Kobayashi-Hitchin correspondence. **94j:58029**
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— *see also* **Atiyah, Michael, 94h:58034**
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Ashtekar, Abhay (*with* Lewandowski, Jerzy) Completeness of Wilson loop functionals on the moduli space of SL(2, **C**) and SU(1, 1) connections. (English summary) **94e:83037**
Bautista Ramos, Raymundo (*with* Muciño, J.; Nahmad-Achar, E.; Rosenbaum, Marcos) Classification of gauge-related invariant connections. (English summary) **94h:53031**
Biswas, I. (*with* Ramanan, S.) An infinitesimal study of the moduli of Hitchin pairs. **94k:14006**
Blau, Matthias (*with* Thompson, George) $N = 2$ topological gauge theory, the Euler characteristic of moduli spaces, and the Casson invariant. (English summary) **94g:58034**
— (*with* Thompson, George) Topological gauge theories from supersymmetric quantum mechanics on spaces of connections. (English summary) **94e:58017**
Boyer, Charles P. (*with* Hurtubise, Jacques C.; Mann, Benjamin M.; Milgram, R. James) The topology of instanton moduli spaces. I. The Atiyah-Jones conjecture. **94h:55010**
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— (*with* Matič, Gordana) The Smith conjecture in dimension four and equivariant gauge theory. (English summary) **94d:57063**
De Bartolomeis, Paolo Principal bundles in action. **94e:53022**
Donaldson, S. K. Gluing techniques in the cohomology of moduli spaces. **94b:57036**
Faltings, Gerd Stable G-bundles and projective connections. **94i:14015**
Fukaya, Kenji Floer homology for oriented 3-manifolds. **94b:57019**
Gauduchon, Paul Variétés riemanniennes autoduales (d'après C. H. Taubes et al.). (French summary) [Self-dual Riemannian manifolds (after C. H. Taubes et al.)] **94k:53060**
Hajac, Piotr M. Axiomatic holonomy maps and generalized Yang-Mills moduli space. (English summary) **94d:53042**
Hardt, Robert M. Spaces of harmonic maps with fixed singular sets. **94g:58052**
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Jeffrey, Lisa C. (*with* Weitsman, Jonathan) Bohr-Sommerfeld orbits in the moduli space of flat connections and the Verlinde dimension formula. (English summary) **94g:58085**
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— Scattering of string monopoles. (English summary) **94f:81129**
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Konno, Hiroshi Construction of the moduli space of stable parabolic Higgs bundles on a Riemann surface. **94g:32027**
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Kreck, Matthias (*with* Stolz, Stephan) Nonconnected moduli spaces of positive sectional curvature metrics. (English summary) **94f:53066**
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— The Mathai-Quillen formalism and topological field theory. (English summary) **94e:58018**
— (*with* Thompson, George) Derivation of the Verlinde formula from Chern-Simons theory and the G/G model. (English summary) **94m:58031**
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Iogansen, A. A. Generating functional for Donaldson invariants and operator algebra in $D = 4$ topological Yang-Mills theory. (Russian) **94d:81225**
Kametani, Yukio Torus sum formula of simple invariants for 4-manifolds. **94d:57045**
Kronheimer, P. B. (*with* Mrowka, Tomasz S.) Gauge theory for embedded surfaces. I. **94k:57048**
Mann, Benjamin M. (*with* Milgram, R. James) The topology of rational maps to Grassmannians and a homotopy-theoretic proof of the Kirwan stability theorem. (English summary) **94g:55022**
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Nash, Charles Topological quantum field theories. (English summary) **94j:57030**
Werneck de Oliveira, M. Algebraic renormalization of the topological Yang-Mills field theory. (English summary) **94i:81135**
Zaslow, Eric Topological orbifold models and quantum cohomology rings. (English summary) **94i:32045**

58D30 Applications (in quantum mechanics (Feynman path integrals), relativity, fluid dynamics, etc.)

Abrikosov, A. A., Jr. Path integral in constrained classical mechanics. (English summary) **94m:58032**

Fujiwara, Daisuke Some Feynman path integrals as oscillatory integrals over a Sobolev manifold. **94d:58030**

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Hashimoto, Takashi (*with* Ogura, Kazunori; Okamoto, Kiyosato; Sawae, Ryuichi) Borel-Weil theory and Feynman path integrals on flag manifolds. **94d:58031**

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Khuri, N. N. A new approach to path integrals. (English summary) **94f:58023**

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Okamoto, Kiyosato *see* **Hashimoto, Takashi; et al., 94d:58031**

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— (*with* Høegh-Krohn, Raphael J.; Paycha, Sylvie; Scarlatti, Sergio) A global and stochastic analysis approach to bosonic strings and associated quantum fields. **94f:81126**

— (*with* Brzeźniak, Zdzisław) Finite-dimensional approximation approach to oscillatory integrals and stationary phase in infinite dimensions. (English summary) **94g:58031**

Bao, David (*with* Ratiu, Tudor S.) On the geometrical origin and the solutions of a degenerate Monge-Ampère equation. (English summary) **94k:58017**

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Borthwick, David Euclidean Majorana fermions, fermionic integrals, and relative Pfaffians. (English summary) **94k:81164**

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— (*with* Wiegel, F. W.) Stochastic area distributions: optimal trajectories, Maslov indices and asymptotic results. (English summary) **94e:81159**

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Nakao, Hajime (*with* Hidaka, Seiji; Imamura, Tsutomu) Evaluation of functional integral. (English summary) **94h:81085**

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Rogers, Alice Anticommuting variables, fermionic path integrals and supersymmetry. (English summary) **94g:58256**

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— A remark on path reparametrization in path integrals for third-order differential equations. (Russian. English and Russian summaries) **94m:81060**

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Vanderbauwhede, André Pitchfork interactions in equivariant bifurcation problems. (English summary) (*see* **94e:00020**)
— *see also* **Lupo, Daniela, 94c:58030**
Vignoli, Alfonso *see* **Ize, Jorge, 94j:58037**
Wu, Wei[1] *see* **Spence, Alastair; et al., 94m:58043**

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Allgower, Eugene L. (*with* Ashwin, Peter; Böhmer, Klaus; Mei, Zhen) Liapunov-Schmidt reduction for a bifurcation problem with periodic boundary conditions on a square domain. (English summary) **94j:35020**
Ashwin, Peter *see* **Allgower, Eugene L.; et al., 94j:35020**
Attili, B. S. Numerical computation of symmetry-breaking bifurcation points. (English summary) **94m:65087**
Böhmer, Klaus (*with* Mei, Zhen) Mode interactions of an elliptic system on the square. (English summary) **94j:35022**
— *see also* **Allgower, Eugene L.; et al., 94j:35020**
Furter, J. E. Hopf bifurcation at nonsemisimple eigenvalues: a singularity theory approach. (English summary) **94j:58124**

Golubitsky, Martin (*with* Stewart, I. N.) An algebraic criterion for symmetric Hopf bifurcation. (English summary) **94i:58135**
Healey, Timothy J. (*with* Kielhöfer, Hansjörg) Preservation of nodal structure on global bifurcating solution branches of elliptic equations with symmetry. **94k:35036**
Iooss, Gérard (*with* Pérouème, Marie-Christine) Perturbed homoclinic solutions in reversible 1 : 1 resonance vector fields. **94c:58134**
Janovský, Vladimír (*with* Plecháč, Petr) Numerical applications of equivariant reduction techniques. (English summary) (*see* **94f:58002**)
Kaczynski, Tomasz (*with* Xia, Huaxing) Hopf bifurcation for implicit neutral functional-differential equations. (English summary) **94i:34144**
Kielhöfer, Hansjörg *see* **Healey, Timothy J., 94k:35036**
Lewis, Debra Bifurcation of liquid drops. (English summary) **94h:58078**
Li, Kai Tai (*with* Mei, Zhen) A splitting iteration method for a simple corank-2 bifurcation problem. (English summary) **94e:65062**
Mei, Zhen *see* **Li, Kai Tai, 94e:65062; Allgower, Eugene L.; et al., 94j:35020** *and* **Böhmer, Klaus, 94j:35022**
Menck, Jürgen A tertiary Hopf bifurcation with applications to problems with symmetries. (English summary) **94b:58074**
Pérouème, Marie-Christine *see* **Iooss, Gérard, 94c:58134**
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58E10 Applications to the theory of geodesics (problems in one independent variable)

Bangert, Victor On the existence of closed geodesics on two-spheres. (English summary) **94d:58036**
Benci, Vieri (*with* Fortunato, Donato) Periodic trajectories for the Lorentz-metric of a static gravitational field. **94g:58041**
— (*with* Fortunato, Donato; Giannoni, Fabio) On the existence of periodic trajectories in static Lorentz manifolds with singular boundary. **94g:58042**
Bouche, Liane Valere *see* **Pelletier, Fernand, 94f:58027**
Christophoridou, Chryssi *see* **Tsagas, Gr. F., 94e:58025**
Fortunato, Donato *see* **Benci, Vieri, 94g:58041** *and* **94g:58042**
Freedman, Michael H. (*with* He, Zheng-Xu) Research announcement on the "energy" of knots. **94h:58046**
— (*with* He, Zheng-Xu; Wang, Zhenghan) Möbius energy of knots and unknots. **94j:58038**
Ge, Zhong On the cut points and conjugate points in a constrained variational problem. (English summary) **94i:58036**
Giannoni, Fabio (*with* Masiello, Antonio) Geodesics on Lorentzian manifolds with quasi-convex boundary. (English summary) **94f:58026**
— Erratum: "Geodesics on nonstatic Lorentz manifolds of Reissner-Nordstrom type" [Math. Ann. **291** (1991), no. 3, 383–401; MR 92k:58054].
— *see also* **Benci, Vieri; et al., 94g:58042**
Hass, Joel (*with* Scott, Peter) Curve flows on surfaces and intersections of curves. (English summary) (*see* **94a:00012**)
He, Zheng-Xu *see* **Freedman, Michael H., 94h:58046** *and* **94j:58038**
Hingston, Nancy Curve shortening, equivariant Morse theory, and closed geodesics on the 2-sphere. (*see* **94a:00012**)
— On the growth of the number of closed geodesics on the two-sphere. **94m:58044**
Kalish, Diane Morse theory for geodesics. (English summary) **94h:58047**
Kendall, Wilfrid S. The propeller: a counterexample to a conjectured criterion for the existence of certain convex functions. (English summary) **94c:58031**
Kim, Denise (*with* Kusner, Rob) Torus knots extremizing the Möbius energy. (English summary) **94j:58039**
Koiso, Norihito Convergence to a geodesic. **94m:58045**
Kusner, Rob *see* **Kim, Denise, 94j:58039**
Linnér, Anders Curve-straightening. (English summary) **94m:58046**
— Existence of free nonclosed Euler-Bernoulli elastica. **94m:58047**
Liu, Wen Sheng (*with* Sussmann, Héctor J.) Abnormal sub-Riemannian minimizers. (English summary) **94i:58037**
Masiello, Antonio On the existence of a closed geodesic in stationary Lorentz manifolds. **94h:58048**
— *see also* **Giannoni, Fabio, 94f:58026**
Musso, Emilio On a property of curves that are stationary with respect to curvature-dependent functionals. (Italian. English and Italian summaries) **94b:58027**
Pearson, Carl E. Note on the numerical construction of geodesics and ray paths. (English summary) **94k:58027**
Pelletier, Fernand (*with* Bouche, Liane Valere) Le problème des géodésiques en géométrie sous-riemannienne singulière. (English and French summaries) [The problem of geodesics in singular sub-Riemannian geometry] **94f:58027**
Rademacher, Hans-Bert ★ Morse-Theorie und geschlossene Geodätische. (German) [Morse theory and closed geodesics] **94h:58049**
— On a generic property of geodesic flows. **94j:58040**
Sapiro, Guillermo (*with* Tannenbaum, Allen) On invariant curve evolution and image analysis. (English summary) **94m:58048**
— (*with* Tannenbaum, Allen) On affine plane curve evolution. (English summary) **94m:58049**
Scott, Peter *see* **Hass, Joel, (94a:00012)**
Stoyanov, Luchezar N. (*with* Takens, Floris) Generic properties of closed geodesics on smooth hypersurfaces. **94d:58037**
Sussmann, Héctor J. *see* **Liu, Wen Sheng, 94i:58037**
Takens, Floris *see* **Stoyanov, Luchezar N., 94d:58037**
Tannenbaum, Allen *see* **Sapiro, Guillermo, 94m:58048** *and* **94m:58049**
Tsagas, Gr. F. (*with* Christophoridou, Chryssi) The cup length of a special flag manifold related to the closed geodesics of another manifold. **94e:58025**
Wang, Zhenghan *see* **Freedman, Michael H.; et al., 94j:58038**
Wen, Yingzhong L^2 flow of curve straightening in the plane. **94f:58028**
Yakovlev, E. I. Motions of gyroscopic systems and Lorentzian geometry. (Russian) **94h:58050**

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Altschuler, Steven J. Shortening space curves. (English summary) **94c:53005**
Bolotin, S. V. Doubly asymptotic trajectories of minimal geodesics. (Russian. Russian summary) **94b:58077**
Buck, G. (*with* Orloff, Jeremy) Computing canonical conformations for knots. (English summary) **94i:57006**
Chen, Xinfu The Hele-Shaw problem and area-preserving curve-shortening motions. (English summary) **94g:35225**
Gage, Michael E. Evolving plane curves by curvature in relative geometries. **94j:53001**
Garrett, F. E., Jr. *see* **Stalford, Harold, 94m:49043**
Hass, Joel (*with* Scott, Peter) Shortening curves on surfaces. **94k:57025**
Jost, Jürgen Unstable solutions of two-dimensional geometric variational problems. **94d:58033**
Kambe, Tsutomu *see* **Zeitlin, V., 94m:58011**
Keilhauer, Guillermo G. R. A note on the space of geodesics. (English summary) **94m:53058**
O'Hara, Jun Family of energy functionals of knots. (English summary) **94h:58064**
— Energy functionals of knots. II. (English summary) **94m:58028**
Orloff, Jeremy *see* **Buck, G., 94i:57006**
Otal, Jean-Pierre Sur la géometrie symplectique de l'espace des géodésiques d'une variété à courbure négative. [On the symplectic geometry of the space of geodesics of a negatively curved manifold] **94a:58077**
Popov, Georgi S. Length spectrum invariants of Riemannian manifolds. **94g:58174**
Scott, Peter *see* **Hass, Joel, 94k:57025**
Shioya, Takashi Behavior of distant maximal geodesics in finitely connected complete 2-dimensional Riemannian manifolds. (English summary) **94h:53053**
Stalford, Harold (*with* Garrett, F. E., Jr.) Classical differential geometry solution of the brachistochrone tunnel problem. (English summary) **94m:49043**
Wang, Zi Xiao (*with* Zhang, De Li) The countable additivity of set-valued integrals and F-valued integrals. (English and Chinese summaries) **94g:28017**
Zeitlin, V. (*with* Kambe, Tsutomu) Two-dimensional ideal magnetohydrodynamics and differential geometry. (English summary) **94m:58011**
Zhang, De Li *see* **Wang, Zi Xiao, 94g:28017**

58E11 Critical metrics

Anderson, Michael T. Degeneration of metrics with bounded curvature and applications to critical metrics of Riemannian functionals. **94c:58032**
Fujiki, Akira Remarks on extremal Kähler metrics on ruled manifolds. **94c:58033**
Hamilton, Richard S. Eternal solutions to the Ricci flow. **94g:58043**
Jørgensen, Steffen The dynamics of extramarital affairs. (English summary) **94e:90027**
Li, Ping Li *see* **Liu, Jia Quan, 94m:58050**
Liu, Jia Quan (*with* Li, Ping Li) Nirenberg's problem on the 2-dimensional hemi-sphere. (English summary) **94m:58050**
Oproiu, V. A global invariant of the symplectic manifolds. **94g:58044**
Perrone, Domenico Torsion tensor and critical metrics on contact $(2n+1)$-manifolds. (English summary) **94c:58034**
Pollack, Daniel Nonuniqueness and high energy solutions for a conformally invariant scalar equation. **94m:58051**
Tamrazov, P. M. Methods for studying extremal metrics and moduli in a twisted Riemannian manifold. (Russian. Russian summary) **94d:58038**

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Hebey, Emmanuel Courbure scalaire et géométrie conforme. (English and French summaries) [Scalar curvature and conformal geometry] **94f:53073**
Kobayashi, Osamu Yamabe metrics and conformal transformations. **94a:53072**
Perrone, Domenico Tangent sphere bundles satisfying $\nabla_\xi \tau = 0$. **94m:53068**
Tian, Gang Some notes on Kähler-Einstein metrics with positive scalar curvature. (English summary) **94e:53044**
Zelewski, Piotr M. On the Hermitian-Einstein tensor of a complex homogeneous vector bundle. (English summary) **94c:53039**

58E12 Applications to minimal surfaces (problems in two independent variables)

Borisovich, A. Yu. Functional-topological properties of the Plateau operator and applications to the study of bifurcations in problems of geometry and hydrodynamics. **94j:58041**
Ilmanen, Tom Convergence of the Allen-Cahn equation to Brakke's motion by mean curvature. (English summary) **94h:58051**
Ishimura, Naoyuki Limit shape of the cross section of shrinking doughnuts. **94f:58029**
Ivanov, A. O. Calibration forms and new examples of globally minimal surfaces. **94g:58045**
Kinderlehrer, David (*with* Ou, Biao; Walkington, Noel J.) The elementary defects of the Oseen-Frank energy for a liquid crystal. (English and French summaries) **94a:58036**
Liu, Jia Quan *see* **Zhang, Gong Qing, 94a:58038**
Ma, Ren Yi Hofer-Zehnder capacity and its application in $M \times \mathbf{R}^{2n}$. (English summary) **94g:58046**
Mancini, Giovanni (*with* Musina, Roberta) Surfaces of minimal area supported by a given body in $\mathbf{R}^3$. **94b:58028**
Micallef, Mario J. (*with* Wolfson, Jon G.) The second variation of area of minimal surfaces in four-manifolds. **94c:58035**
Miklyukov, V. M. Singularity sets of solutions of the equation of maximal surfaces in Minkowski space. (Russian. Russian summary) **94e:58026**
Musina, Roberta *see* **Mancini, Giovanni, 94b:58028**
Nayatani, Shin Morse index of complete minimal surfaces. (English summary) **94e:58027**
Nitsche, Johannes C. C. Periodic surfaces that are extremal for energy functionals containing curvature functions. (English summary) **94m:58052**
— Boundary value problems for variational integrals involving surface curvatures. (English summary) **94c:58036**

Ou, Biao *see* **Kinderlehrer, David; et al., 94a:58036**
Palmer, Bennett Second variation formulas for Willmore surfaces. (English summary) **94a:58037**
Simon, Leon M. Existence of surfaces minimizing the Willmore functional. **94k:58028**
Ströhmer, Gerhard The parametric Plateau problem and related topics. (English summary) **94e:58028**
(Taylor, Jean E.) *see* **Workshop: Computational Crystal Growers, 94h:58052**
Tuzhilin, Aleksei Avgustinovich Global properties of minimal surfaces in $\mathbf{R}^3$ and $\mathbf{H}^3$ and their Morse type indices. **94g:58047**
Vogel, Thomas I. Uniqueness of capillary surfaces in wedges and cones. **94b:58029**
Walkington, Noel J. *see* **Kinderlehrer, David; et al., 94a:58036**
Wolfson, Jon G. *see* **Micallef, Mario J., 94c:58035**
Ye, Rugang Gromov's compactness theorem for pseudo holomorphic curves. (English summary) **94f:58030**
Zhang, Gong Qing (*with* Liu, Jia Quan) On Nirenberg's problem. **94a:58038**

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Almgren, Frederick J., Jr. Questions and answers about area-minimizing surfaces and geometric measure theory. **94h:49063**
Angenent, Sigurd B. Some recent results on mean curvature flow. **94m:58053**
Bernatzki, Felicia The Plateau-Douglas problem for nonorientable minimal surfaces. (English summary) **94k:53010**
Dierkes, Ulrich (*with* Hildebrandt, Stefan; Küster, Albrecht; Wohlrab, Ortwin) ★ Minimal surfaces. I. **94c:49001a**
— (*with* Hildebrandt, Stefan; Küster, Albrecht; Wohlrab, Ortwin) ★ Minimal surfaces. II. **94c:49001b**
Ejiri, Norio (*with* Kotani, Motoko) Index and flat ends of minimal surfaces. **94g:53003**
Fischer, Werner *see* **Koch, Elke, 94a:53016**
(Fomenko, A. T.) *see* **Minimal surfaces, 94b:53002**
Giaquinta, Mariano (*with* Modica, Giuseppe; Souček, Jiří) Singular perturbations associated to the Dirichlet energy of maps with values in S^2. (English summary) **94k:49046**
Gonzalez, Eduardo H. A. (*with* Massari, Umberto; Tamanini, Italo) Boundaries of prescribed mean curvature. (English and Italian summaries) **94j:49049**
Grüter, M. Geometric measure theory and minimal surfaces. **94k:49039**
Hass, Joel (*with* Pitts, Jon T.; Rubinstein, J. Hyam) Existence of unstable minimal surfaces in manifolds with homology and applications to triply periodic minimal surfaces. **94j:53007**
Hildebrandt, Stefan (*with* Sauvigny, Friedrich) On one-to-one harmonic mappings and minimal surfaces. (English summary) **94b:49069**
— *see also* **Dierkes, Ulrich; et al., 94c:49001a** *and* **94c:49001b**
Hoffman, David A. (*with* Wei, Fu Sheng; Karcher, Hermann) Adding handles to the helicoid. (English summary) **94g:53004**
Ji, Min Multiple solutions to the Douglas problem in S^n. (English summary) **94k:49047**
Jost, Jürgen Unstable solutions of two-dimensional geometric variational problems. **94d:58033**
Karcher, Hermann *see* **Hoffman, David A.; et al., 94g:53004**
Koch, Elke (*with* Fischer, Werner) Triply periodic minimal balance surfaces. A correction: "On 3-periodic minimal surfaces" [Z. Krist. **179** (1987), no. 1-4, 31–52; MR 90c:53018] and "On 3-periodic minimal surfaces with noncubic symmetry" [Z. Krist. **183** (1988), no. 1-4, 129–152; MR 90h:53011]. (English summary) **94a:53016**
Koh, Sung Eun The stability of complete noncompact surfaces with constant mean curvature. (English summary) **94m:53008**
Kotani, Motoko *see* **Ejiri, Norio, 94g:53003**
Küster, Albrecht *see* **Dierkes, Ulrich; et al., 94c:49001a** *and* **94c:49001b**
Lami Dozo, Enrique (*with* Mariani, María Cristina) A Dirichlet problem for an H-system with variable H. (English summary) **94k:35107**
— (*with* Mariani, María Cristina) The Plateau problem for the prescribed mean curvature equation. **94m:35106**
Lê Hông Vân Effective calibrations in the theory of minimal surfaces. **94g:53045**
Mariani, María Cristina *see* **Lami Dozo, Enrique, 94k:35107** *and* **94m:35106**
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Miranda, Mario Surfaces with prescribed mean curvature. **94m:49056**
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Morgan, Frank $(\mathbf{M}, \varepsilon, \delta)$-minimal curve regularity. **94e:49018**
Nowak, Ivo Minimal surfaces with prescribed topological type on a Schwarzian chain in M_c^3. (English summary) **94h:53013**
Parks, Harold R. The least gradient method for computing area-minimizing hypersurfaces. **94g:49095**
Pinkall, Ulrich (*with* Polthier, Konrad) Computing discrete minimal surfaces and their conjugates. (English summary) **94j:53009**
Pitts, Jon T. *see* **Hass, Joel; et al., 94j:53007**
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Rotondaro, Giovanni On total curvature of immersions and minimal submanifolds of spheres. (English summary) **94h:53081**
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Simon, Leon M. The singular set of minimal submanifolds and harmonic maps. **94d:58042**
Soner, Halil Mete Motion of a set by the curvature of its boundary. (English summary) **94b:58038**
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Souček, Jiří *see* **Giaquinta, Mariano; et al., 94k:49046**
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58E15 Application to extremal problems in several variables; Yang-Mills functionals [see also 81T13], etc.

Angenent, Sigurd B. Some recent results on mean curvature flow. **94m:58053**
Bizoń, Piotr Saddle points of stringy action. (English summary) **94k:58029**
Donaldson, S. K. The approximation of instantons. **94k:58030**
Duong Minh Duc (*with* Salavessa, Isabel M. C.) On a class of graphs with prescribed mean curvature. (English summary) **94m:58054**
Esteban, Maria J. A new setting for Skyrme's problem. **94f:58031**
Feres, Renato Connection preserving actions of lattices in $\mathrm{SL}_n\mathbf{R}$. (English summary) **94a:58039**
Giga, Yoshikazu Motion of a graph by convexified energy. **94m:58055**
Heusler, Markus A no-hair theorem for self-gravitating nonlinear sigma models. (English summary) **94d:58039**
Huisken, Gerhard Local and global behaviour of hypersurfaces moving by mean curvature. **94c:58037**
Ilmanen, Tom The level-set flow on a manifold. **94d:58040**
Ji, Min Minimal annuli in Riemannian manifolds. (English summary) **94i:58038**
Klyachin, V. A. (*with* Miklyukov, V. M.) A capacity condition for the instability of minimal hypersurfaces. (Russian) **94h:58053**
Koiso, Norihito Yang-Mills connections of homogeneous bundles. II. **94b:58030**
Luckhaus, Stephan Convergence of minimizers for the p-Dirichlet integral. **94d:58041**
Miklyukov, V. M. *see* **Klyachin, V. A., 94h:58053**
Naito, Hisashi On a local Hölder continuity for a minimizer of the exponential energy functional. **94b:58031**
Oh, Yong-Geun Volume minimization of Lagrangian submanifolds under Hamiltonian deformations. **94a:58040**
Otway, Thomas H. Removable singularities of stationary fields. (English summary) **94c:58038**
Papadopoulos, Demetrios B. Static and axially symmetric soliton solutions to the self-dual SU(3) and SU(2) gauge fields in a Euclidean space. **94k:58031**
Råde, Johan On the Yang-Mills heat equation in two and three dimensions. **94a:58041**
Rotondaro, Giovanni A variational characterization of the Euclidean n-sphere. **94g:58048**
Saka, Kōichi (*with* Takemura, Ryūshō) Qualitative search for Einstein-Yang-Mills field equations. **94f:58032**
Salavessa, Isabel M. C. *see* **Duong Minh Duc, 94m:58054**
Schiff, Jeremy Integrability of Chern-Simons-Higgs vortex equations and a reduction of the self-dual Yang-Mills equations to three dimensions. **94h:58054**
Sibner, L. M. Examples of nonminimal critical points in gauge theory. **94h:58055**
Simon, Leon M. The singular set of minimal submanifolds and harmonic maps. **94d:58042**
Smoller, J. A. (*with* Wasserman, Arthur G.) Einstein/Yang-Mills equations. **94h:58056**
— (*with* Wasserman, Arthur G.) Existence of infinitely many smooth, static, global solutions of the Einstein/Yang-Mills equations. (English summary) **94a:58042**
— (*with* Wasserman, Arthur G.; Yau, Shing-Tung) Existence of black hole solutions for the Einstein-Yang/Mills equations. (English summary) **94d:58043**
Śniatycki, Jędrzej On boundary conditions for Yang-Mills fields in spatially bounded domains. (English summary) **94a:58043**
Sutcliffe, Paul M. Instanton chains with soliton limits. (English summary) **94a:58044**
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Tchrakian, D. H. New gauge field models with non-Yang-Mills dynamics. (English summary) **94i:58039**
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Almgren, Frederick J., Jr. (*with* Browder, William) Homotopy with holes and minimal surfaces. **94a:49041**
— (*with* Taylor, Jean E.; Wang, Lihe) Curvature-driven flows: a variational approach. (English summary) **94h:58067**
Bahri, Abbas Yamabe-type and scalar curvature equations. **94e:53032**
— Another proof of the Yamabe conjecture for locally conformally flat manifolds. **94e:53033**
Borisenko, A. A. Ruled special Lagrangian surfaces. **94f:53099**
Braam, Peter J. Magnetic monopoles and topology. **94e:57049**
Brézis, Haïm New energies for harmonic maps and liquid crystals. **94g:58049**
Browder, William *see* **Almgren, Frederick J., Jr., 94a:49041**
Buchdahl, N. P. Instantons on $n\mathbf{CP}_2$. **94e:53025**
Buffoni, Boris (*with* Jeanjean, Louis) Minimax characterization of solutions for a semi-linear elliptic equation with lack of compactness. (English and French summaries) **94m:35099**
Burzlaff, J. (*with* Chakrabarti, Amitabha; Tchrakian, D. H.) Axially symmetric instantons in generalized Yang-Mills theory in $4p$ dimensions. (English summary) **94b:53053**
Cattaneo Gasparini, Ida Some remarks on the second variation formula for the area. (English summary) **94i:53052**
Chakrabarti, Amitabha *see* **Burzlaff, J.; et al., 94b:53053**
Cheng, Benny N. Variations on calibrations. (English summary) **94j:53065**
Cheng, Xiaoxi Area-reducing flows. **94c:53009**
Dezin, A. A. Models generated by Yang-Mills equations. (Russian. Russian summary) **94j:53085**
Dierkes, Ulrich A Bernstein result for energy minimizing hypersurfaces. (English summary) **94k:35084**

van Elst, Henk Jacobi metric for the Bartnik/McKinnon SU(2)-EYM field. (English summary) **94i:83011**
Fitzsimmons, Sean Obtaining magnetic monopole solutions by use of the Laplace transform. (English summary) **94e:81181**
Fuchs, Martin² p-harmonic obstacle problems. IV. Unbounded side conditions. (English summary) **94i:49051**
Gaeta, Giuseppe Critical sections of gauge functionals: a symmetry approach. (English summary) **94d:58035**
Giachetta, G. (*with* Mangiarotti, L.; Vitolo, R.) Some results on the Einstein-Yang-Mills equations. (English summary) **94c:81126**
Ivanova, T. A. (*with* Popov, A. D.) Some solutions of the Yang-Mills equations in dimension greater than four. (English summary) **94c:53038**
— (*with* Popov, A. D.) (Anti)self-dual gauge fields in dimension $d \geq 4$. (Russian. English and Russian summaries) **94m:53036**
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Klinkhamer, F. R. Existence of a new instanton in constrained Yang-Mills-Higgs theory. (English summary) **94m:81070**
Krauter, Peter Maximum properties of affine minimal hypersurfaces. (English summary) **94m:53011**
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— (*with* Giovannozzi, M.; Servizi, G.; Todesco, E.; Turchetti, Giorgio) Resonant normal forms, interpolating Hamiltonians and stability analysis of area preserving maps. (English summary) **94i:58175**

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Lu, Qi Keng (*with* Hong, Yi) The heat kernel of the classical domain $\mathfrak{R}_I(m,n)$. **94c:32020**
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McAvity, David M. (*with* Osborn, Hugh) Quantum field theories on manifolds with curved boundaries: scalar fields. (English summary) **94f:81121**
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Zhu, Fu Liu The heat kernel of the second classical domain and of the symmetric space of a normal real form. (Chinese. Chinese summary) **94b:43006**
— The heat kernel of the second classical domain and of the symmetric space of a normal real form. (English summary) **94h:32054**
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58G12 Exotic index theories [see also 19K56, 46L05, 46L10, 46L80, 46M20]

Benameur, Moulay-Tahar Un théorème de Lefschetz longitudinal en K-théorie équivariante. (English and French summaries) [A leafwise Lefschetz theorem in equivariant K-theory] **94h:58164**
Connes, Alain (*with* Sullivan, Dennis P.; Teleman, Nicolae) Formules locales pour les classes de Pontrjagin topologiques. (English and French summaries) [Local formulas for topological Pontryagin classes] **94h:58165**
Getzler, Ezra Cyclic homology and the Atiyah-Patodi-Singer index theorem. (English summary) **94j:58162**
Gong, Guihua Relative K-cycles and elliptic boundary conditions. **94a:58191**
Gromov, Mikhael L. (*with* Shubin, M. A.) The Riemann-Roch theorem for elliptic operators. **94j:58163**

Hurder, Steven Topology of covers and the spectral theory of geometric operators. **94c:58203**
Kucerovsky, Dan Averaging operators and open manifolds. (English summary) **94g:58218**
Mori, Keiichi Fredholm complexes on homogeneous spaces and geometric K-homology. I, II. **94g:58219**
Moscovici, Henri (*with* Wu, Fangbing) Localization of topological Pontrjagin classes via finite propagation speed. (English and French summaries) **94i:58193**
Nistor, Victor Higher McKean-Singer index formulae and noncommutative geometry. (English summary) **94d:58140**
Plamenevskii, B. A. (*with* Rozenblyum, G. V.) Topological characteristics of the algebra of singular integral operators on the circle with discontinuous symbols. (Russian. Russian summary) **94c:58204**
— (*with* Rozenblyum, G. V.) Pseudodifferential operators with discontinuous symbols: K-theory and index formulas. (Russian. Russian summary) **94a:58192**
Ramachandran, Mohan von Neumann index theorems for manifolds with boundary. **94j:58164**
Roe, John Coarse cohomology and index theory on complete Riemannian manifolds. **94a:58193**
Rosenberg, Jonathan (*with* Weinberger, Shmuel) Higher G-signatures for Lipschitz manifolds. (English summary) **94j:58165**
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Borisov, N. V. (*with* Il'inskiĭ, K. N.; Uzdin, V. M.) Generalized supersymmetry and new topological indexes for quantum GSQM- and ESQM-Hamiltonians. (English summary) **94b:81031**
Duflo, Michel (*with* Vergne, Michèle) Cohomologie équivariante et méthode de descente. II. (English and French summaries) [Equivariant cohomology and the method of descent. II] **94k:22026**
Gracia-Bondía, José M. *see* **Várilly, Joseph C., 94g:46083**
Gromov, Mikhael L. (*with* Shubin, M. A.) The Riemann-Roch theorem for elliptic operators and solvability of elliptic equations with additional conditions on compact subsets. **94k:58143**
Guentner, Erik K-homology and the index theorem. (English summary) **94h:19006**
Higson, Nigel (*with* Roe, John) A homotopy invariance theorem in coarse cohomology and K-theory. (English summary) **94m:19004**
Il'inskiĭ, K. N. *see* **Borisov, N. V.; et al., 94b:81031**
Nistor, Victor A bivariant Chern-Connes character. **94i:19007**
Park, Efton Index theory and Toeplitz algebras on one-parameter subgroups of Lie groups. (English summary) **94c:46136**
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Várilly, Joseph C. (*with* Gracia-Bondía, José M.) Connes' noncommutative differential geometry and the standard model. (English summary) **94g:46083**
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Zhang, Wei Ping[1] A remark on the regularity of the η-function of Dirac operators. (English summary) **94k:58144**

58G15 Pseudodifferential and Fourier integral operators on manifolds [see also 35Sxx]

Boutet de Monvel, Louis Revue sur la théorie des $\mathscr{D}$-modules et modèles d'opérateurs pseudodifférentiels. [A survey of the theory of $\mathscr{D}$-modules and models of pseudodifferential operators] **94g:58220**
Braam, Peter J. (*with* Duistermaat, J. J.) Normal forms of real symmetric systems with multiplicity. (English summary) **94k:58146**
Duduchava, R. V. (*with* Speck, F.-O.) Pseudodifferential operators on compact manifolds with Lipschitz boundary. (English summary) **94i:58194**
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Garello, G. Inhomogeneous microlocal analysis for $\mathscr{E}^\infty$ and H^x_{φ} singularities. (English summary) **94j:58166**
Greenleaf, Allan (*with* Uhlmann, Gunther) Microlocal analysis of the two-plane transform. **94c:58205**
Kakehi, Tomoyuki Range characterization of Radon transforms on S^n and $P^n\mathbf{R}$. **94g:58221**
Laptev, A. A. (*with* Safarov, Yu.; Vasil'ev, D. G.) Global representation of Lagrangian distributions. **94h:58166**
Lewis, Jeff E. (*with* Selvaggi, Renata; Sisto, Irene) Singular integral operators on C^1 manifolds. **94a:58194**
Lohoué, Noël Inégalités de Sobolev pour les sous laplaciens de certains groupes unimodulaires. (English and French summaries) [Sobolev inequalities for the sub-Laplacians of certain unimodular groups] **94d:58141**
Marhuenda, F. Microlocal analysis of some isospectral deformations. (English summary) **94g:58222**
Mazzeo, Rafe Edge operators in geometry. **94d:58142**
Meinrenken, Eckhard Semiclassical principal symbols and Gutzwiller's trace formula. (English summary) **94k:58147**
Nazaĭkinskiĭ, V. E. (*with* Sternin, B. Yu.; Shatalov, V. E.) Introduction to Maslov's operational method (noncommutative analysis and differential equations) [MR 93b:58148]. (*see* **94d:00013**)
— (*with* Sternin, B. Yu.; Shatalov, V. E.) Maslov operational calculus and noncommutative analysis. (English summary) **94e:58137**
— (*with* Sternin, B. Yu.; Shatalov, V. E.) Contact geometry and linear differential equations. (Russian) **94h:58167**
Qian, Min (*with* Xu, Lian Chao) Weyl transformations on manifolds. II. Generalized trace and inverse mapping formula. (English summary) **94g:58223**
Quinto, Eric Todd Pompeiu transforms on geodesic spheres in real analytic manifolds. (English summary) **94i:58195**
Rubanovich, S. Holomorphic continuation of kernels of pseudodifferential operators. **94a:58195**
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Saks, R. S. Generalized elliptic pseudodifferential operators on a closed manifold. (Russian) **94j:58167**
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Taylor, Michael E. (*with* Uribe, Alejandro) Semiclassical spectra of gauge fields. (English summary) **94d:58143**
Thompson, Alan A. Sobolev estimates for singular Radon transforms. (English summary) **94g:58224**
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Willems, B. Phases de FBI de seconde espèce adaptées au conormal à l'origine. (English summary) [FBI phase functions of the second kind adapted to the conormal bundle to the origin] **94g:58225**
— Distributions lagrangiennes analytiques. (English summary) [Analytic Lagrangian distributions] **94g:58226**
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Zolotykh, A. E. On the structure of the space of pseudodifferential operators with a finite group of shifts. (Russian. Russian summary) **94d:58144**

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Abouelaz, Ahmed (*with* Daher, Radouan) Sur la transformation de Radon de la sphère S^d. (English and French summaries) [On the Radon transform of the sphere S^d] **94g:22015**
Belov, V. V. (*with* Dobrokhotov, S. Yu.) Semiclassical Maslov asymptotics with complex phases. I. General approach. (Russian. English and Russian summaries) **94g:58229**
Bennish, Joseph Asymptotics for elliptic boundary value problems for systems of pseudo-differential equations. **94m:35327**
Bézard, Max Une version générale de l'inégalité de Strichartz. (English and French summaries) [A generalization of the Strichartz inequality] **94f:35162**
Bourgain, Jean Eigenfunction bounds for the Laplacian on the n-torus. **94f:58127**
Cancelier, Claudy (*with* Chemin, Jean-Yves; Xu, Chao Jiang) Calcul de Weyl et opérateurs sous-elliptiques. [Weyl calculus and subelliptic operators] **94g:35053**
Chemin, Jean-Yves *see* **Cancelier, Claudy; et al., 94g:35053**
Christ, Michael (*with* Geller, Daryl; Głowacki, Paweł; Polin, Larry) Pseudodifferential operators on groups with dilations. **94b:35316**
Cordes, H. O. On essential selfadjointness of powers and comparison algebras. **94m:47096**
Cui, Zhi Yong (*with* Wu, Kai) Leray formula and Kashiwara index. **94m:58074**
Daher, Radouan *see* **Abouelaz, Ahmed, 94g:22015**
Davydov, A. B. On the study of a second-order elliptic differential operator on a manifold without boundary with turning points. (Russian) **94f:35098**
Delort, J.-M. Microlocalisation simultanée et problème de Cauchy ramifié. [Simultaneous microlocalization and the ramified Cauchy problem] **94k:58141**
Deundyak, V. M. (*with* Simonenko, I. B.; Stukopin, V. A.) Homotopic classification of families of Noether singular operators with piecewise-continuous coefficients on a complex contour. (Russian) **94g:47061**
Dobrokhotov, S. Yu. *see* **Belov, V. V., 94g:58229**
Erkip, Albert K. (*with* Schrohe, Elmar) Normal solvability of elliptic boundary value problems on asymptotically flat manifolds. (English summary) **94f:58126**
Geller, Daryl *see* **Christ, Michael; et al., 94b:35316**
Gérard, Patrick (*with* Leichtnam, Éric) Ergodicité de fonctions propres pour des problèmes aux limites. [Ergodicity of eigenfunctions for boundary value problems] **94e:35159**
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Gramsch, Bernhard (*with* Ueberberg, Johannes; Wagner, Klaus) Spectral invariance and submultiplicativity for Fréchet algebras with applications to pseudo-differential operators and Ψ^*-quantization. **94g:47065**
Grubb, Gerd (*with* Kokholm, Niels Jørgen) A global calculus of parameter-dependent pseudodifferential boundary problems in L_p Sobolev spaces. (English summary) **94m:35328**
Honda, Naofumi Regularity theorems for holonomic modules. **94g:58206**
Ikromov, I. A. On a theorem of Colin de Verdière. (Russian) **94j:58169**
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Nazaĭkinskiĭ, V. E. (*with* Shatalov, V. E.; Sternin, B. Yu.) ★ Contact geometry and linear differential equations. **94e:35161**
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Quinto, Eric Todd Singularities of the X-ray transform and limited data tomography in $\mathbf{R}^2$ and $\mathbf{R}^3$. (English summary) **94i:44002**
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Schrohe, Elmar Functional calculus and Fredholm criteria for boundary value problems on noncompact manifolds. (English summary) **94d:58147**
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Schulze, Bert-Wolfgang The Mellin pseudo-differential calculus on manifolds with corners. **94d:47053**
Senichkin, V. N. *see* **Plamenevskiĭ, B. A., (94g:00020)**
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Sogge, Christopher D. ★ Fourier integrals in classical analysis. (English summary) **94c:35178**
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Unterberger, Julianne Inégalités de Carleman sur les cônes symétriques. (French summary) [Carleman inequalities on symmetric cones] **94a:35027**
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Wang, Xue Ping[1] Microlocal resolvent estimates for N-body Schrödinger operators. (English summary) **94k:35234**
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Zelditch, Steven Spectrum and geodesic flow. **94j:58176**

58G16 Hyperbolic equations

Anderson, W. G. (*with* McLenaghan, R. G.) On Huygens' principle for relativistic wave equations. (English summary) **94f:58125**
Choquet-Bruhat, Yvonne Solution des contraintes pour les équations d'Einstein sur une variété asymptotiquement euclidienne non maximale. (English and French summaries) [Solution of constraints for the Einstein equations on nonmaximal asymptotically Euclidean manifolds] **94e:58138**
Driver, Bruce K. (*with* Frankel, Theodore) On the growth of waves on manifolds. **94j:58168**
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Jerison, D. (*with* Sogge, Christopher D.; Zhou, Zheng-Fang) Sobolev estimates for the wave operator on compact manifolds. **94c:58206**
McLenaghan, R. G. *see* **Anderson, W. G., 94f:58125**
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Carminati, J. (*with* Czapor, S. R.; McLenaghan, R. G.) The validity of Huygens' principle for the wave equation on curved space-time. (English summary) (*see* **94b:83003**)
Czapor, S. R. *see* **Carminati, J.; et al., (94b:83003)**
Laptev, A. A. (*with* Safarov, Yu.; Vasil'ev, D. G.) Global representation of Lagrangian distributions. **94h:58166**
McLenaghan, R. G. *see* **Carminati, J.; et al., (94b:83003)**
Neeb, Karl-Hermann Ordered symmetric spaces. **94j:53063**
Safarov, Yu. *see* **Laptev, A. A.; et al., 94h:58166**
Vasil'ev, D. G. *see* **Laptev, A. A.; et al., 94h:58166**
Yakovlev, E. I. Motions of gyroscopic systems and Lorentzian geometry. (Russian) **94h:58050**

58G17 Propagation of singularities; initial value problems

Cardin, Franco Geometrical Cauchy problem for H-J equations and wave propagation. **94g:58227**
Gérard, Patrick (*with* Lebeau, Gilles) Deuxième microlocalisation et problèmes aux limites. (French summary) [Second microlocalization and boundary problems] **94a:58197**
Lebeau, Gilles Propagation des ondes dans les dièdres. [Wave propagation in dihedra] **94m:58219**
— *see also* **Gérard, Patrick, 94a:58197**
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Shatalov, V. E. *see* **Sternin, B. Yu., 94g:58228**
Sternin, B. Yu. (*with* Shatalov, V. E.) A ramified Cauchy problem for operators that have Hamiltonian rest points. (Russian) **94g:58228**

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Berest, Yu. Yu. (*with* Veselov, A. P.) The Huygens principle and Coxeter groups. (Russian) **94f:35110**
Berhanu, S. Propagation of singularities in a locally integrable structure. **94f:35004**
Doi, Shin-ichi On the propagation of a certain polarization set for semilinear systems of real principal type. **94h:35286**
Godin, Paul Long time existence of piecewise smooth progressing waves for semilinear wave equations. **94c:35126**
Ivriĭ, V. Ya. Semiclassical spectral asymptotics. (English summary) **94c:58207**
Lascar, Bernard (*with* Lascar, Richard) Propagation des singularités Gevrey pour la diffraction. (English summary) [Propagation of Gevrey singularities for diffraction] **94b:35014**
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58G18 Perturbations; asymptotics

Belov, V. V. (*with* Dobrokhotov, S. Yu.) Semiclassical Maslov asymptotics with complex phases. I. General approach. (Russian. English and Russian summaries) **94g:58229**
Buldyrev, V. S. (*with* Grigor'eva, N. S.) Perturbation theory for phase integrals and its application to problems of wave propagation [MR 88j:76032]. (English summary) (*see* **94g:00020**)
Dobrokhotov, S. Yu. *see* **Belov, V. V., 94g:58229**
Efremov, D. V. (*with* Shubin, M. A.) The spectral asymptotics of elliptic operators of Schrödinger type on a hyperbolic space. (English summary) **94d:58145**
Forman, Robin Adiabatic limits, small eigenvalues and spectral sequences. (English summary) **94i:58196**
Fulling, S. A. Asymptotic approximations to fundamental solutions of differential equations on manifolds. **94d:58146**
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Ikromov, I. A. On a theorem of Colin de Verdière. (Russian) **94j:58169**
Ivriĭ, V. Ya. Semiclassical spectral asymptotics. (English summary) **94c:58207**
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Items with secondary classifications in 58G18

van den Berg, Michiel (*with* Desjardins, S.; Gilkey, Peter B.) Heat content asymptotics of Riemannian manifolds. (*see* **94h:53003**)
— (*with* Gilkey, Peter B.) Heat content asymptotics of a Riemannian manifold with boundary. (English summary) **94m:58215**
Bleher, Pavel M. Distribution of the error term in the Weyl asymptotics for the Laplace operator on a two-dimensional torus and related lattice problems. **94g:11082**
Branson, Thomas P. (*with* Gilkey, Peter B.) Residues of the eta function for an operator of Dirac type with local boundary conditions. (English summary) **94m:58221**
Cardin, Franco Geometrical Cauchy problem for H-J equations and wave propagation. **94g:58227**
Chen, Hua[1] *see* **Sleeman, B. D., 94g:35164**
Desjardins, S. *see* **van den Berg, Michiel; et al., (94h:53003)**
Donnelly, Harold Asymptotic properties of eigenfunctions—the hyperbolic plane. **94h:35190**
Gilkey, Peter B. Functorality and heat equation asymptotics. **94c:58196**
— Heat equation asymptotics. (English summary) **94c:58198**
— *see also* **van den Berg, Michiel, 94m:58215**; **Branson, Thomas P., 94m:58221** *and* **van den Berg, Michiel; et al., (94h:53003)**
Guseinov, G. Sh. On the spectral asymptotics of the Laplacian on the fundamental domain of a three-dimensional hyperbolic space. (Russian) **94m:58223**
Ivriĭ, V. Ya. Spectral asymptotics for the family of commuting operators. (English summary) **94j:35119**
Kaminski, D. Asymptotics of oscillatory multidimensional integrals with phase functions degenerate along a curve. (English summary) **94j:58026**
Kordyukov, Yu. A. Quasiclassical asymptotics of the spectrum of elliptic operators in a foliated manifold. (Russian) **94a:58201**
Lopatnikov, A. M. Asymptotic expansion of the heat kernel for a class of hypoelliptic operators. **94f:58123**
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— (*with* Wojciechowski, Krzysztof P.) Dirac operators and manifolds with boundary. (English summary) **94m:58220**
Bugir, M. K. Boundary value problems for partial differential equations on manifolds of constant curvature. (Russian. Russian summary) **94c:58208**
Erkip, Albert K. (*with* Schrohe, Elmar) Normal solvability of elliptic boundary value problems on asymptotically flat manifolds. (English summary) **94f:58126**
Furutani, Kenrô (*with* Ôtsuki, Nobukazu) Spectral flow and intersection number. **94g:58231**
Nicolaescu, Liviu I. The Maslov index, the spectral flow and splittings of manifolds. (English and French summaries) **94k:58148**
Ôtsuki, Nobukazu *see* **Furutani, Kenrô, 94g:58231**
Rabinovich, V. S. The Fredholm property of general boundary value problems on noncompact manifolds, and limit operators. (Russian) **94g:58232**
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Bär, Christian Upper eigenvalue estimates for Dirac operators. (English summary) **94a:58198**
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— (*with* Gilkey, Peter B.) The functional determinant of a four-dimensional boundary value problem. (English summary) **94k:58155**
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— (*with* Srinivas Rau, S.) On an isospectrality question over compact Riemann surfaces. II. **94m:58222**
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58G32 Diffusion processes and stochastic analysis on manifolds

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— Conformally invariant powers of the Laplacian. II. Nonexistence. **94c:58227**
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Lebeau, Gilles Control for hyperbolic equations. **94b:93070**
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58G99 None of the above, but in this section

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58Hxx Pseudogroups, differentiable groupoids and general structures on manifolds

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58H10 Cohomology of classifying spaces for pseudogroup structures (Spencer, Gel′fand-Fuks, etc.) [see also 57R32]

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